



BTL-4000

Laser

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LASER

1 NOGIER 1.14 Hz

Program	L-0100
Therapy parameters	nogier 1.14 Hz Dosage: 0.5 J/cm ² Power: by probe Irradiated area: 0.1 cm ² Frequency: 1.14 Hz Duty factor (DF): 80 % (256)

2 NOGIER 2.28 Hz

Program	L-0101
	nogier 2.28 Hz
Therapy parameters	Dosage: 0.5 J/cm ²
	Power: by probe
	Irradiated area: 0.1 cm ²
	Frequency: 2.28 Hz
	Duty factor (DF): 80 %
	(257)

3 NOGIER 4.56 Hz

Program	L-0102
Therapy parameters	nogier 4.56 Hz
	Dosage: 0.5 J/cm ²
	Power: by probe
	Irradiated area: 0.1 cm ²
	Frequency: 4.56 Hz
	Duty factor (DF): 80 %
	(258)

4 NOGIER 9-12 Hz

Program	L-0103
	nogier 9.12 Hz
Therapy parameters	Dosage: 0.5 J/cm ²
	Power: by probe
	Irradiated area: 0.1 cm ²
	Frequency: 9.12 Hz
	Duty factor (DF): 80 %
	(259)

5 NOGIER 18.3 Hz

Program	L-0104
	nogier 18.3 Hz
Therapy parameters	Dosage: 0.5 J/cm ²
	Power: by probe
	Irradiated area: 0.1 cm ²
	Frequency: 18.3 Hz
	Duty factor (DF): 80 %
	(260)

6 N O G I E R 3 6 . 5 H Z

Program L-0105
nogier 36.5 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 36.5 Hz
Duty factor (DF): 80 %
(261)

7 N O G I E R 7 3 H Z

Program L-0106
nogier 73 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 73 Hz
Duty factor (DF): 80 %
(262)

8 N O G I E R 1 4 6 H Z

Program L-0107
nogier 146 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 146 Hz
Duty factor (DF): 80 %
(263)

9 E A V 1 . 2 H Z

Program L-0200
EAV 1.2 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 1.2 Hz
Duty factor (DF): 80 %
(265)

1 0 E A V 1 . 7 H Z

Program L-0201
EAV 1.7 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 1.7 Hz
Duty factor (DF): 80 %
(266)

11 E A V 1.75 H Z

Program L-0202
EAV 1.75 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 1.75 Hz
Duty factor (DF): 80 %
(267)

12 E A V 2.2 H Z

Program L-0203
EAV 2.2 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 2.2 Hz
Duty factor (DF): 80 %
(268)

13 E A V 2.45 H Z

Program L-0204
EAV 2.45 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 2.45 Hz
Duty factor (DF): 80 %
(269)

14 E A V 2.5 H Z

Program L-0205
EAV 2.5 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 2.5 Hz
Duty factor (DF): 80 %
(270)

15 E A V 2.65 H Z

Program L-0206
EAV 2.65 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 2.65 Hz
Duty factor (DF): 80 %
(271)

16 E A V 2.9 H Z

Program L-0207
EAV 2.9 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 2.9 Hz
Duty factor (DF): 80 %
(272)

17 E A V 3.3 H Z

Program L-0208
EAV 3.3 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 3.3 Hz
Duty factor (DF): 80 %
(273)

18 E A V 3.5 H Z

Program L-0209
EAV 3.5 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 3.5 Hz
Duty factor (DF): 80 %
(274)

19 E A V 3.6 H Z

Program L-0210
EAV 3.6 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 3.6 Hz
Duty factor (DF): 80 %
(275)

20 E A V 3.8 H Z

Program L-0211
EAV 3.8 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 3.8 Hz
Duty factor (DF): 80 %
(276)

2 1 E A V 3 . 9 H Z

Program L-0212
EAV 3.9 Hz
Therapy parameters
Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 3.9 Hz
Duty factor (DF): 80 %
(277)

2 2 E A V 4 H Z

Program L-0213
EAV 4 Hz
Therapy parameters
Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 4 Hz
Duty factor (DF): 80 %
(278)

2 3 E A V 4 . 9 H Z

Program L-0214
EAV 4.9 Hz
Therapy parameters
Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 4.9 Hz
Duty factor (DF): 80 %
(279)

2 4 E A V 5 . 5 5 H Z

Program L-0215
EAV 5.55 Hz
Therapy parameters
Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 5.55 Hz
Duty factor (DF): 80 %
(280)

2 5 E A V 5 . 8 H Z

Program L-0216
EAV 5.8 Hz
Therapy parameters
Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 5.8 Hz
Duty factor (DF): 80 %
(281)

26 E A V 5.9 H Z

Program L-0217
EAV 5.9 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 5.9 Hz
Duty factor (DF): 80 %
(282)

27 E A V 6 H Z

Program L-0218
EAV 6 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 6 Hz
Duty factor (DF): 80 %
(283)

28 E A V 6.3 H Z

Program L-0219
EAV 6.3 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 6.3 Hz
Duty factor (DF): 80 %
(284)

29 E A V 6.8 H Z

Program L-0220
EAV 6.8 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 6.8 Hz
Duty factor (DF): 80 %
(285)

30 E A V 7.5 H Z

Program L-0221
EAV 7.5 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 7.5 Hz
Duty factor (DF): 80 %
(286)

3 1 E A V 7 . 7 H Z

Program L-0222
EAV 7.7 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 7.7 Hz
Duty factor (DF): 80 %
(287)

3 2 E A V 8 . 2 5 H Z

Program L-0223
EAV 8.25 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 8.25 Hz
Duty factor (DF): 80 %
(288)

3 3 E A V 9 . 2 H Z

Program L-0224
EAV 9.2 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 9.2 Hz
Duty factor (DF): 80 %
(289)

3 4 E A V 9 . 3 5 H Z

Program L-0225
EAV 9.35 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 9.35 Hz
Duty factor (DF): 80 %
(290)

3 5 E A V 9 . 4 H Z

Program L-0226
EAV 9.4 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 9.4 Hz
Duty factor (DF): 80 %
(291)

3 6 E A V 9 . 4 5 H Z

Program L-0227
EAV 9.45 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 9.45 Hz
Duty factor (DF): 80 %
(292)

3 7 E A V 9 . 5 H Z

Program L-0228
EAV 9.5 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 9.5 Hz
Duty factor (DF): 80 %
(293)

3 8 E A V 9 . 6 H Z

Program L-0229
EAV 9.6 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 9.6 Hz
Duty factor (DF): 80 %
(294)

3 9 E A V 9 . 7 H Z

Program L-0230
EAV 9.7 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 9.7 Hz
Duty factor (DF): 80 %
(295)

4 0 E A V 1 0 H Z

Program L-0231
EAV 10 Hz
Therapy parameters Dosage: 0.5 J/cm²
Power: by probe
Irradiated area: 0.1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
(296)

4.1 ALVEOLITIS

Program L-0300
alveolitis

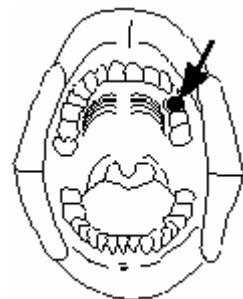
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 6 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments every other day (3x per week)

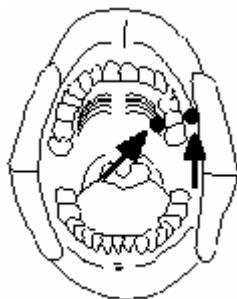
Number of treatments 1 - 3

Note Recommended procedure:
Disinfect the extraction wound with chlorhexidin.
Place the probe into the wound and irradiate.
Fill in the extraction wound with Avolgyl or Repin.
Repeat 1 - 3 times.
Laser therapy can also decrease pain in the lymphatic gland.
An analgesic effect is achieved and the healing process is hastened.
Positive results appear immediately after the first laser application.
(298)

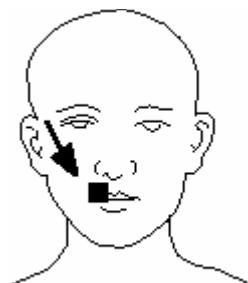


4 2 A N A L G I A

Program	L-0301 analgia
Therapy parameters	Dosage: 3.5 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 10 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	min. 1
Number of treatments	min. 1
Note	If a needle is used that is too large, or anesthesia is injected too quickly, the blood vessel can be injured and a hematoma may occur. Laser therapy shortens the healing process of the hematoma. Apply intra-orally to the injection area, and extra-orally to the affected muscle. For a nerve injury, apply to the injured area. Continue intra- and extra-oral treatment sessions until symptoms of the hematoma regress. Paresthesia, hypesthesia and anesthesia following a nerve injury caused by the injection needle requires long-term treatment. Laser therapy induces healing. Apply 1 - 2 a week for a total of 10 treatments at 2 - 4 J/cm ² . Laser therapy reduces pain, contractures, and the risk of hematoma formation. (299)

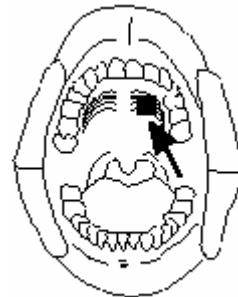
**4 3 A N G U L U S I N F E C T I O S U S**

Program	L-0302 angulus infectiosus
Therapy parameters	Dosage: 1.6 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5.2 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	daily – every other day
Number of treatments	min. 3 - 5
Note	Irradiate the affected area. Prior to therapy, remove local medicaments such as gels or plaster. Results can be seen after only 3 therapy sessions. Irradiation induces healing. For chronic disease, duration of therapy is longer. (300)



44 APHTA (STOMATITIS APHTOSA) (1)

Program	L-0303 aphta (stomatitis aphtosa) (1)
Therapy parameters	Dosage: 1 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: Cont. Duty factor (DF): Cont.
Probe	red
Frequency of treatments	2 - 5 (2x per day possible)
Number of treatments	2 - 5
Note	Irradiate the entire affected surface as close to the center as possible. Traditional treatment methods usually last 8 - 10 days, but laser therapy cuts the duration to 1 - 2 days. Induces faster cessation of the burning sensation. Laser therapy reduces the number and duration of recidivation. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (301)

**45 APHTA (STOMATITIS APHTOSA) (2)**

Program	L-0304 aphta (stomatitis aphtosa) (2)
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5.2 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	2 - 5 (2x per day possible)
Number of treatments	2 - 5
Note	Irradiate the entire affected surface as close to the center as possible. Traditional treatment methods usually last 8 - 10 days, but laser therapy cuts the duration to 1 - 2 days. Induces faster cessation of the burning sensation. Laser therapy reduces the number and duration of recidivation. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (302)



46 C A R I E S D E N T I S

Program L-0305
caries dentis

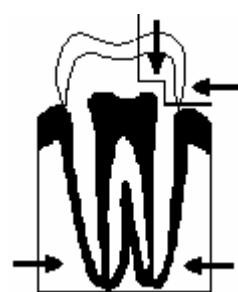
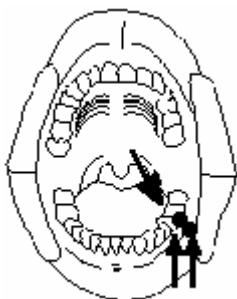
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 3.3 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 1

Number of treatments 1

Note Prior to extraction or filling, irradiate the dentine in the caries hollow, as well as the top of the root.
Hastens lymphatic draining in the apical area, reduces edema and hyperemia in the pulp, and has an analgesic effect to nerve endings in the pulp.
Sub-gum caries surgery can injure the papilla, which leads to bleeding that makes filling difficult. Laser therapy lowers pain and often stops bleeding.
Irradiate injured papilla at 1 - 2 J/cm².
Tooth core caries: Laser therapy has an analgesic effect, and stimulates odontoblasts to form tertiary dentine. Density: 4 J/cm².
(303)



47 CICATRIX CHELOIDUM

Program L-0306
cicatrix cheloidum

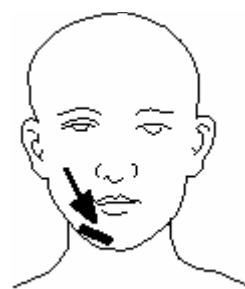
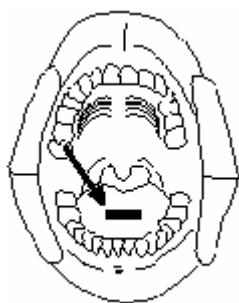
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 2 - 3

Number of treatments 10 - 15 (40)

Note Irradiate the entire scar.
Nociceptive activity of keloid scars is decreased.
Irradiate in combination with surgical treatment.
As a preventive treatment, irradiate persons with keloid forming tendencies.
The older the scar, the longer the treatment.
Irradiation decreases coloration of older scars.
(304)



48 CICATRIX RECENS (1)

Program L-0307
 cicatrix recens (1)

Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.

Probe red

Frequency of treatments daily - 3x per week

Number of treatments 5 - 15

Note Irradiate the entire scar.
 Begin irradiation immediately after surgery.
 Acute cases: set a lower dose and irradiate more frequently.
 Chronic cases: set a higher dose and irradiate less frequently.
 Good laser therapy results can be achieved with burns, ulcers and keloid scars.
 According to some experts it is advisable to irradiate the planned area 2 - 3 days in advance, or during the actual surgery.
 Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
 Laser treatment has an analgesic effect, and also reduces infiltration, swelling and hematoma.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (305)



49 CICATRIX RECENS (2)

Program L-0308
 cicatrix recens (2)

Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe red

Frequency of treatments daily - 3x per week

Number of treatments 5 - 15

Note Irradiate the entire scar.
 Begin irradiation immediately after surgery.
 Acute cases: set a lower dose and irradiate more frequently.
 Chronic cases: set a higher dose and irradiate less frequently.
 Good laser therapy results can be achieved with burns, ulcers and keloid scars.
 According to some experts it is advisable to irradiate the planned area 2 - 3 days in advance, or during the actual surgery.
 Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
 Laser treatment has an analgesic effect, and also reduces infiltration, swelling and hematoma.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (306)

**50 CONTUSIO**

Program L-0309
 contusio

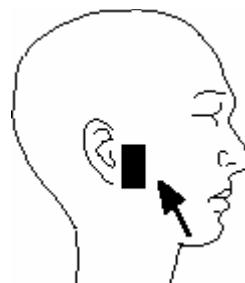
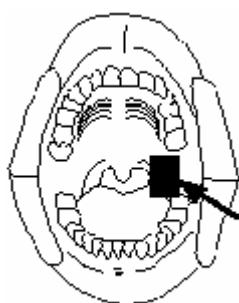
Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 2

Number of treatments until disappearance

Note Joint contusion is accompanied by a limitation of mouth opening and swelling above the joint.
 Irradiate to decrease pain and edema, and to absorb the hematoma.
 Use 8.0 Hz anti-edema frequency.
 (307)



5 1 D E C U B I T U S

Program	L-0310 decubitus
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 6 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	daily
Number of treatments	min. 1 - 2
Note	Laser therapy has an analgesic and healing effect. Chronic disease: daily irradiation is recommended. (308)

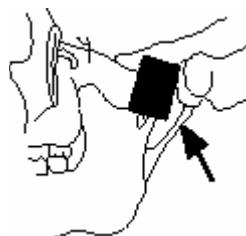
**5 2 D E N T I T I O D I F F I C I L . - A N A L G I A**

Program	L-0311 dentitio difficil.-analgia
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	daily - 5x per week
Number of treatments	min. 2 - 3, max. 10 - 15
Note	This condition is accompanied by considerable pain and difficulty in opening the mouth. Correct diagnosis and prognosis of the tooth, and the corresponding surgical therapy is very important. Laser therapy improves the ability to open the mouth, and reduces swelling which enables better surgical treatment. Induces analgesic, anti-edematous and healing effect. (309)

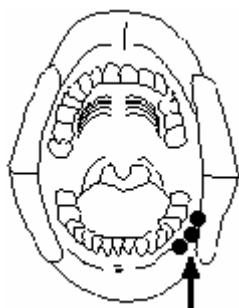


5 3 FRACTURA - ANALGIA

Program	L-0312 fractura - analgia
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 10 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	3x per week
Number of treatments	7
Note	If blood supply to the fragment has not been damaged, the fragment is repositioned and fixed in situ. Apply irradiation to the break site (alveolar bone, jaw joint). (310)

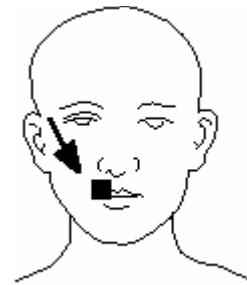
**5 4 GINGIVITIS**

Program	L-0313 gingivitis
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Number of treatments	2 - 4
Note	Irradiate 2 – 4x daily for 2 days prior to cleaning in order to reduce gingival sensitivity; then remove harmful substances and irradiate again after cleaning. Irradiate each papilla. Laser therapy has a bactericidal effect on micro flora, reduces inflammatory reaction, and improves local as well as total immunity response of the organism. (311)

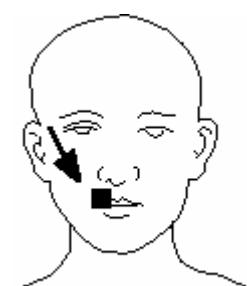


5 5 H E R P E S (1)

Program	L-0314
Therapy parameters	herpes (1) Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: Cont. Duty factor (DF): Cont. daily – every other day
Frequency of treatments	3 - 6
Number of treatments	Probe: use red light for lips and mucosa, and infrared light for skin.
Note	Irradiate at the first signs of tension in the tissue. Results are better when started in the early stages of the condition. Irradiate at the edges of the lesion. Doses of sufficient strength must be given because herpes can worsen if only a stimulatory dose is given. During the therapy session, irradiate first with continuous mode and then with pulse frequency. Irradiation reduces pain. Normal healing takes 8 - 14 days, but only 2-4 days with laser therapy. Reduces recurrence of the condition. Prevents the forming of blisters. Has a healing, analgesic, and anti-edema effect. 1st and 2nd part of therapy should be understood as two parts of one therapy session. (312)

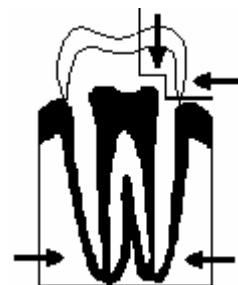
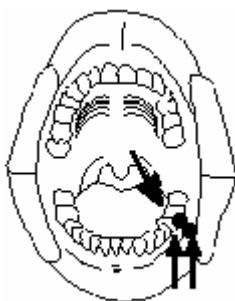
**5 6 H E R P E S (2)**

Program	L-0315
Therapy parameters	herpes (2) Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Frequency of treatments	daily – every other day
Number of treatments	3 - 6
Note	Probe: use red light for lips and mucosa, and infrared light for skin. Irradiate at the first signs of tension in the tissue. Results are better when started in the early stages of the condition. Irradiate at the edges of the lesion. Doses of sufficient strength must be given because herpes can worsen if only a stimulatory dose is given. During the therapy session, irradiate first with continuous mode and then with pulse frequency. Irradiation reduces pain. Normal healing takes 8 - 14 days, but only 2-4 days with laser therapy. Reduces recurrence of the condition. Prevents the forming of blisters. Has a healing, analgesic, and anti-edema effect. 1st and 2nd part of therapy should be understood as two parts of one therapy session. (313)



57 HYPERAEMIA PULPAE

Program	L-0316 hyperaemia pulpa
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 3.5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	varies
Number of treatments	min. 1
Note	Hastens lymphatic drainage in the apical area, and reduces edema and hyperemia in the pulp. Laser therapy has an analgesic effect, and stimulates odontroblasts to form tertiary dentine. (314)

**58 HYPERSENSIBILITAS DENTINALIS**

Program	L-0317 hypersensibilitas dentinalis
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 9 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	every other day (daily)
Number of treatments	1 - 10
Note	Irradiate the labial side and oral side of the affected. Laser therapy has an analgesic effect. Fluorine-based medicaments can also be applied. Laser therapy is nearly 100% successful. (315)



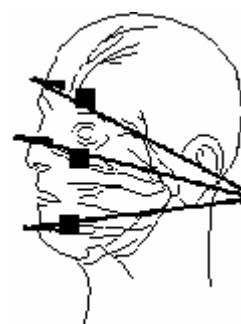
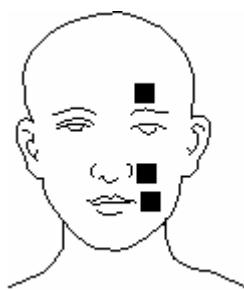
59 MORBUS TEMPOROMANDIBULARE

Program L-0318
 morbus temporomandibulare
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments 1 - 3
 Number of treatments 10
 Note
 Accurately diagnose the status of the TMJ.
 TMJ contusion: Density: 2 - 4 J/cm². 3 treatments per week until symptoms disappear. Decreases pain, edema, and hastens absorption of hematoma.
 TMJ-PDS (Pain dysfunction syndrome) is a long-term and difficult treatment.
 Combine laser therapy with traditional medical treatment. Irradiation decreases pain.
 Irradiate the ear in front of the tragus and below it, from the outer auditory canal to the head of the joint. Density: 2 J/cm². Apply to painful areas of the masseter.
 If there is a TMJ contusion, apply density of 5 - 6 J/cm² to the joint.
 Laser therapy has an analgesic effect.
 Acute problems can be treated in a short time, but treatment of chronic diseases can take a months.
 Laser therapy and thermotherapy can be used in combination.
 Another thermotherapy may be applied simultaneously.
 (316)

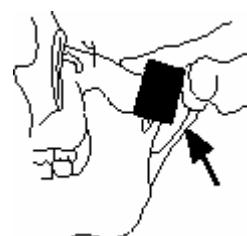


60 NEURALGIA NERVI TRIGEMINI

Program	L-0319 neuralgia nervi trigemini
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	3
Number of treatments	6 - 10
Note	Exact diagnosis is very important. Having eliminated the cause, apply directly to trigeminal outlets (safeguard against vision damage). Significant improvement happens in the 1st phase of treatment. Idiopathic neuralgia sometimes recurs. Secondary neuralgia seldom recurs. Watch out for a regressive effect. (317)

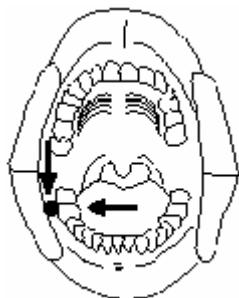
**61 PARODONTITIS**

Program	L-0320 parodontitis
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Number of treatments	varies
Note	Parodontitis is the result of uncontrolled gingivitis. Laser therapy has a bactericidal effect on pathogenic micro flora and reduces inflammatory reaction. Reduces gingiva inflammation and pain, enabling better dental hygiene. Stops or reduces formation of pus. Improves or removes pseudo-periodontal pockets. Decreases sensitivity to chewing. If surgery is required, laser therapy decreases pain and hastens the healing process. (318)



6.2 PERIODONTITIS

Program	L-0321
	periodontitis
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 9 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	daily
Number of treatments	1 - 5
Note	Recommended procedure: Irradiate the root tip and canals until exudation stops and the tooth is less painful to tap. After filling the canals, irradiate the root tip. Laser therapy has an analgesic, healing and anti-inflammatory effect. Reduces: gum inflammation and bleeding during surgery. Reduces pus in deep periodontal pockets. (319)



6.3 POSTEXTRACTION

Program L-0322
postextractio

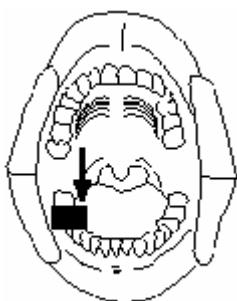
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 1

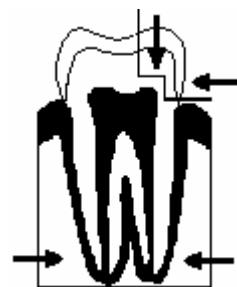
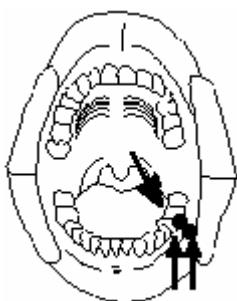
Number of treatments 1

Note Laser therapy is recommended as a preventive measure against post-extraction complications.
Application: Prior to extraction, irradiate mucosa above the tooth roots. Density: 2 J/cm². Place the probe in the tooth bed after an extraction. Density: 2 - 4 J/cm². Irradiate around the tooth gap. Density: 2 - 4 J/cm². Laser therapy has analgesic effect, is anti-inflammatory, and hastens healing. Supports microcirculation and hastens delivery of trombocytes to the bleeding alveoli.
(320)



6 4 P R E P A R A T I O

Program	L-0323 preparatio
Therapy parameters	Dosage: 1 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 6 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	varies
Number of treatments	min. 1
Note	Irradiate cavity and apex of tooth: Prior to surgery. Prior to filling. Results visible after 1st application. Laser therapy has an analgesic effect and helps odontoblast rehabilitation. Irradiate pillars one time after preparation. (321)

**6 5 P U L P A A P E R T A**

Program	L-0324 pulpa aperta
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 3.5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	varies
Number of treatments	min. 1
Note	Treatment consists of covering the injured pulp with Ca(OH) based medicaments and laser irradiation. Not recommended for teeth planned for prosthesis. Laser therapy can disguise the actual status of the tooth pulp, which if unnoticed under the prosthesis and the tooth pulp may become chronic pulpitis. (322)



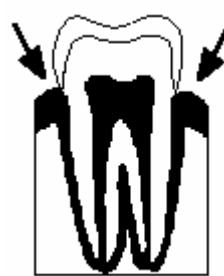
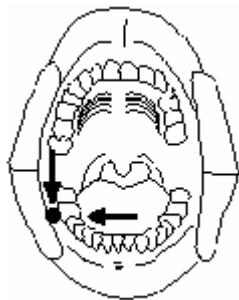
66 PULPITIS

Program	L-0325
	pulpitis
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 10 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	varies
Number of treatments	2 - 5
Note	Irradiate the tip of the tooth root. Laser therapy has an analgesic effect. Increases the level of endorphin at synapses, supports lymphatic draining and reduces edema within the pulp. If needed, irradiation can be applied after the treatment, with the same density as used earlier. Anti-inflammatory effect of the laser positively affects the remains of the living pulp within the tooth apex, which reduces pain. Laser therapy cannot affect the course of acute or chronic pulpitis, but pain will be significantly reduced. (323)



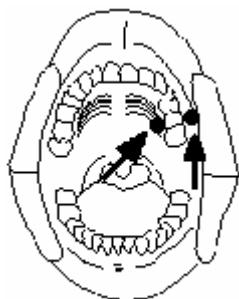
67 SANATIO POSTOPERAT.

Program L-0326
sanatio postoperat.
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments daily – every other day
Number of treatments 2 - 5
Note Hastens healing of the wound.
Improves blood supply.
Reduces complications.
Recommended procedure:
Irradiate mucosa above the apex of the tooth indicated for extraction, or above the location of the surgery. Density: 2 J/cm².
Irradiate alveoli of the extracted tooth. Density: 4 J/cm².
Irradiate rim of the alveoli or suture. Density: 2 J/cm².
The lymphatic gland can also be irradiated at 2 J/cm² or the temporomandibular joint at 5 - 6 J/cm².
For swelling of hematoma, irradiate at 2 - 4 J/cm².
Positive effects are usually visible after the second therapy.
Laser therapy has analgesic, anti-inflammatory, bio-stimulatory and anti-edema effect.
(324)



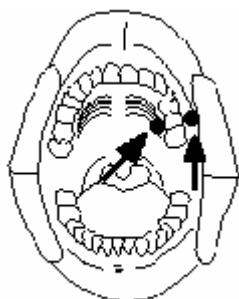
6 8 ANALGIA - HAEMATOM (INTRAORALIS)

Program L-0327
analgia - haematom (intraoralis)
Therapy parameters Dosage: 4.5 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments at least 1
Number of treatments at least 1
(535)



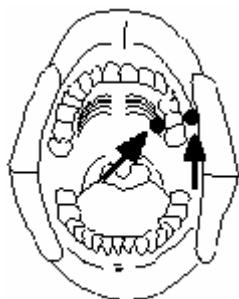
6 9 ANALGIA - HAEMATOM (EXTRAORALIS)

Program L-0328
analgia - haematom (extraoralis)
Therapy parameters Dosage: 5.5 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments at least 1
Number of treatments at least 1
(536)



70 ANALGIA - INJURED NERVE

Program L-0329
analgia - injured nerve
Therapy parameters Dosage: 5.5 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments at least 1
Number of treatments at least 1
(537)



71 FRACTURA - ANALGIA

Program L-0330
fractura - analgia
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe infrared
Frequency of treatments 3x per week
Number of treatments 7
Note If blood supply to the fragment has not been damaged, the fragment is repositioned and fixed in situ.
Apply irradiation to the fracture site.
(538)



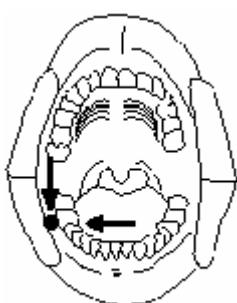
72 PARODONTOTIS (SUPPURATIVE GINGIVITIS)

Program L-0331
parodontotis (suppurative gingivitis)
Therapy parameters Dosage: 2.5 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments daily
(539)



73 PARODONTOTIS (DEEP PERIODONTAL POCKET)

Program L-0332
parodontotis (deep periodontal pocket)
Therapy parameters Dosage: 6 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments daily
Note Parodontitis is the result of uncontrolled gingivitis.
Laser therapy has a bactericidal effect on pathogenic micro flora and reduces inflammatory reaction.
Reduces gingiva inflammation and pain, enabling better dental hygiene.
Stops or reduces formation of pus.
Improves or removes pseudo-periodontal pockets (tartar is then better visible and can be easily removed).
Decreases sensitivity to chewing.
If surgery is required, laser therapy decreases pain and hastens the healing process.
(540)



74 ACNE

Program L-0400
acne

Therapy parameters Dosage: 2 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5.5 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 1 - 2

Number of treatments varies

Note Irradiate the affected surface.
After 2 - 4 irradiation sessions, skin condition improves, fibroblast stimulation occurs, collagen production increases, and pustules dry out after several irradiation sessions. Improvement occurs after several sessions.
Irradiation effect is temporary for hormonal disorders.
Acne juvenilis: Laser therapy favourably affects microcirculation, creates defensive antiseptic elements, and helps prevent permanent scars.
Acne vulgaris: Begin irradiation around the edges of the focus, and work towards the center..
(326)



75 ALOPECIA (DEFLUVİUM CAPILLORUM)

Program L-0401
alopecia (defluvium capillorum)

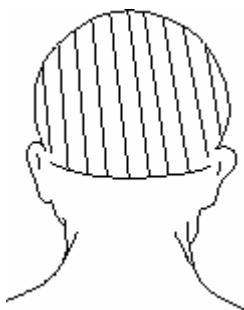
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 2

Number of treatments varies

Note Irradiate scalp where hair is parted. Continue, section by section, until entire scalp has been treated.
Total length of application should not exceed 10 minutes per day.
Hair stops falling during the first 2-3 weeks and hair growth improves in 8-12 weeks.
Irradiation of the scalp improves blood supply to and nutrition of the hair follicle.
With androgen alopecias, progression of the condition significantly declines.
(327)



76 CICATRIX CHELOIDUM

Program L-0402
cicatrix cheloidum

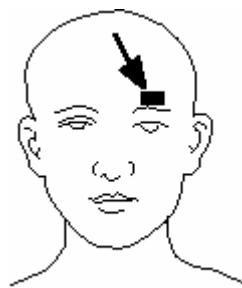
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 2 – 3

Number of treatments 10 – 15 (40)

Note Irradiate the whole scar.
Nociceptive activity of keloid scars decreases.
Irradiate in combination with surgical treatment.
As a preventive treatment, irradiate persons with keloid forming tendencies.
The older the scar, the longer the treatment.
Irradiation decreases coloration of older scars.
(328)



77 CICATRIX RECENS (1)

Program L-0403
cicatrix recens (1)

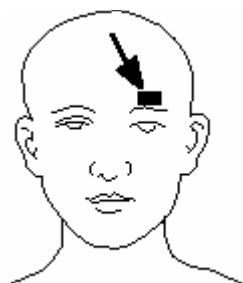
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.

Probe red

Frequency of treatments daily – 3x per week

Number of treatments 5 – 15

Note Irradiate the whole scar.
Begin irradiation immediately after surgery.
Acute cases: set a lower dose and irradiate more frequently.
Chronic cases: set a higher dose and irradiate less frequently.
Good laser therapy results can be achieved with burns, ulcers and keloid scars.
According to some experts, it is advisable to irradiate the area 2-3 days prior to surgery, or during the surgery itself.
Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
Laser treatment has an analgesic effect, and reduces infiltration, swelling and haematoma.
1st and 2nd part of therapy should be understood as two parts of one therapy session.
(329)



78 CICATRIX RECENS (2)

Program L-0404
cicatrix recens (2)

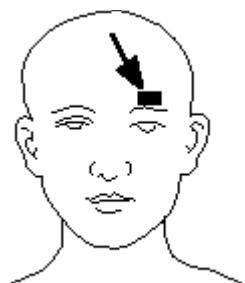
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments daily – 3x per week

Number of treatments 5 – 15

Note Irradiate the whole scar.
Begin irradiation immediately after surgery.
Acute cases: set a lower dose and irradiate more frequently.
Chronic cases: set a higher dose and irradiate less frequently.
Good laser therapy results can be achieved with burns, ulcers and keloid scars.
According to some experts, it is advisable to irradiate the area 2-3 days prior to surgery, or during the surgery itself.
Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
Laser treatment has an analgesic effect, and reduces infiltration, swelling and haematoma.
1st and 2nd part of therapy should be understood as two parts of one therapy session.
(330)

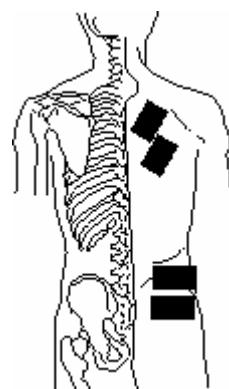
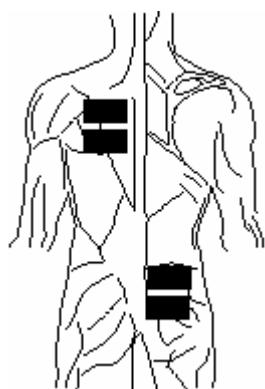


79 COMBUSTIO

Program	L-0405 combustio
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 9.12 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	daily – 3x per week
Number of treatments	15
Note	Irradiation eliminates infection, enhances granulation and epithelialization, reduces scarring, and prevents keloids from forming. Begin irradiation around the edges of the burn, and work towards the center. Treat the burn medically at the same time. Irradiation hastens division of basal cells, which is doubled or tripled. In addition, it reduces capillary hemorrhaging. Laser therapy supports formation of vessels, lymphatic circulation, and decreases pain. (331)

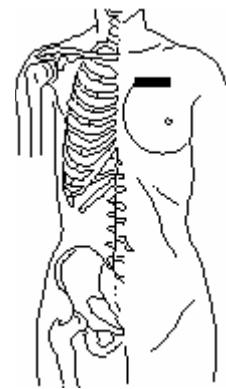
**80 DECUBITUS**

Program	L-0406 decubitus
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 6 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	daily
Number of treatments	min. 1 – 2
Note	Laser therapy has an analgesic and healing effect. Daily irradiation is recommended for chronic conditions. (332)



8 1 D E R M A T I T I S

Program	L-0407 dermatitis
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	varies
Number of treatments	varies
Note	Laser therapy applied at an acute stage (swollen and itchy skin) can have an anti-pruriginous effect, allowing treatment with sedatives to be decreased or eliminated. Reduces inflammation. Can be also used for dermatitis that is therapeutically resistant to classical treatment methods. (333)

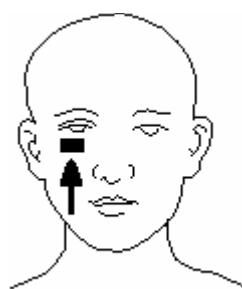
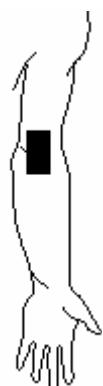
**8 2 D E R M A T I T I S P E R I O R A L I S**

Program	L-0408 dermatitis perioralis
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	1 – 2
Number of treatments	4 – 8 weeks
Note	This condition is a form of rosacea. Patients are advised to avoid direct sunlight. Irradiate affected area. Immediately following treatment, skin becomes redder, but the condition improves rapidly after several hours. Positive effects usually last 1-2 years. (334)



8 3 E C Z E M A

Program	L-0409 eczema
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	1 – 2x per week
Number of treatments	varies
Note	Causal factors must be eliminated in order to prevent recurrence. Periodic eczema, usually associated with colds and infections in winter months, with eruptions usually on the face, neck, etc. Application: low intensity, low density, freq. 2-5 Hz. Chronic eczema (that can affect the patient psychically as well as physically). Application: lower density, higher frequency. Apply to pruriginous areas. Chronic lichenous skin changes type without acute exacerbation. Application: high intensity, higher frequency. (335)

**8 4 F U R U N C U L U S**

Program	L-0410 furunculus
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 2 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	varies
Number of treatments	varies
Note	Irradiate affected areas. (336)



85 HAE MATOMA

Program L-0411
haematoma

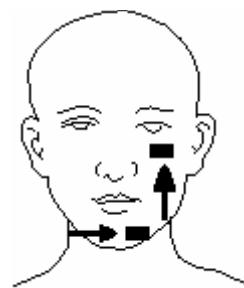
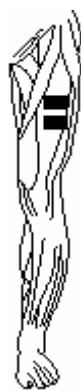
Therapy parameters Dosage: 1 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 6 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 5

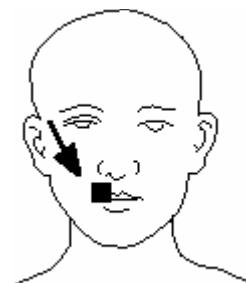
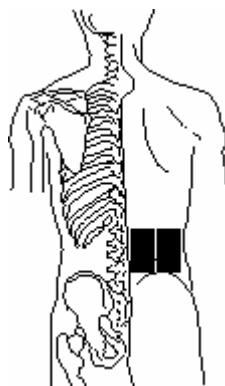
Number of treatments 3 – 10

Note Acute haematoma.
Application: frequency 6 Hz, density 3 J/cm².
Post-injury haematoma.
Application: frequency 8 Hz, density 1 J/cm².
Suture haematoma.
Application: frequency 5-10 Hz; density 0.9-1 J/cm² (if very painful, 1-4 J/cm²).
Irradiate around the suture.
(337)



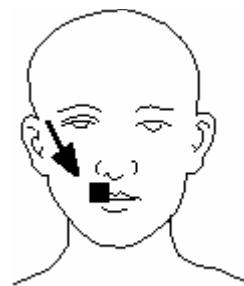
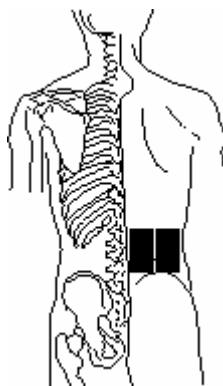
86 HERPES (1)

Program	L-0412 herpes (1)
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: Cont. Duty factor (DF): Cont.
Probe	red / infrared
Frequency of treatments	1st day 1-2x, then daily
Number of treatments	3 – 6
Note	Probe: use red light for lips and mucosa, and infrared light for skin. Irradiate at the first signs of tension in the tissue. Results are better when started in the early stages of the condition. Irradiate at the edges of the lesion. Doses of sufficient strength must be given because herpes can worsen if only a stimulatory dose is given. During the therapy session, irradiate first with continuous mode and then with pulse frequency. Irradiation reduces pain. Normal healing takes 8 - 14 days, but only 2-4 days with laser therapy. Reduces recurrence of the condition. Prevents the forming of blisters. Has a healing, analgesic, and anti-edema effect. 1st and 2nd part of therapy should be understood as two parts of one therapy session. (338)



87 HERPES (2)

Program	L-0413 herpes (2)
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red / infrared
Frequency of treatments	1st day 1-2x, then daily
Number of treatments	3 – 6
Note	Probe: use red light for lips and mucosa, and infrared light for skin. Irradiate at the first signs of tension in the tissue. Results are better when started in the early stages of the condition. Irradiate at the edges of the lesion. Doses of sufficient strength must be given because herpes can worsen if only a stimulatory dose is given. During the therapy session, irradiate first with continuous mode and then with pulse frequency. Irradiation reduces pain. Normal healing takes 8 - 14 days, but only 2-4 days with laser therapy. Reduces recurrence of the condition. Prevents the forming of blisters. Has a healing, analgesic, and anti-edema effect. 1st and 2nd part of therapy should be understood as two parts of one therapy session. (339)

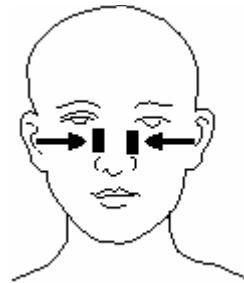
**88 LICHEN PLANUS**

Program	L-0414
Therapy parameters	lichen planus Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Number of treatments	varies
Note	Laser therapy quickly relieves itching and decreases the area of lichen. Given the various forms and types, parameters must be set according to patient reaction. Lichen ruber planus: density of 2-3 J/cm ² , irradiate until the lichen disappears. (340)



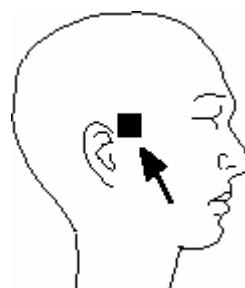
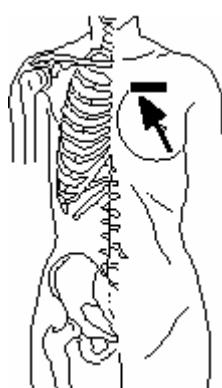
89 ROSACEA

Program	L-0415 rosacea
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	varies
Number of treatments	varies
Note	There are several forms of rosacea -- from occasional red to purely pustular form. (341)



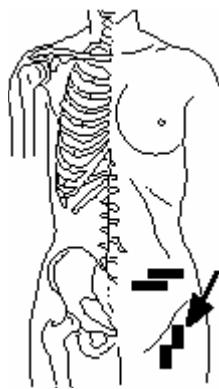
90 SANATIO POSTOPERATIVA

Program	L-0416 sanatio postoperatoriva
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	1 – 2
Number of treatments	1 – 4
Note	Accelerates healing of wounds. Improves blood supply. (342)



9 1 S T R I A E

Program	L-0417
striae	
Therapy parameters	
Dosage: 3 J/cm ²	
Power: by probe	
Irradiated area: 1 cm ²	
Frequency: 8.4 Hz	
Duty factor (DF): 80 %	
Probe	red
Frequency of treatments	2 – 3
Number of treatments	20 – 30
Note	The sooner the treatment starts the better the result is. In neglected cases, therapy can last up to 100 sessions. (343)

**9 2 U L C U S C R U R I S (1)**

Program	L-0418
ulcus cruris (1)	
Therapy parameters	
Dosage: 3 J/cm ²	
Power: by probe	
Irradiated area: 1 cm ²	
Frequency: Cont.	
Duty factor (DF): Cont.	
Probe	red
Frequency of treatments	2 – 3 (daily)
Number of treatments	8 – 20
Note	Excellent clinical effect. During 1st part of therapy, use continuous mode with higher power. During 2nd part of therapy, use modulated frequency with lower power. If the parameters are well-selected, a formerly unhealable condition can be completely cured. Ulcus cruris varicosum: Irradiate daily for the first few sessions, then 2 or 3x a week. Irradiate at the edges of the ulcer. 1st and 2nd part of therapy should be understood as two parts of one therapy session. (344)

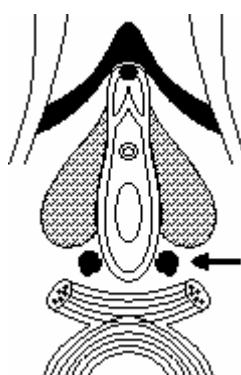
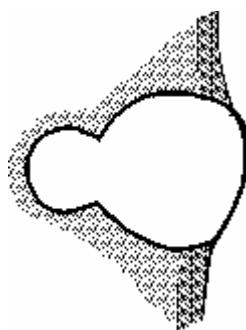


9 3 ULCUS CRURIS (2)

Program	L-0419
	ulcus cruris (2)
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	2 – 3 (daily)
Number of treatments	8 – 20
Note	Excellent clinical effect. During 1st part of therapy, use continuous mode with higher power. During 2nd part of therapy, use modulated frequency with lower power. If the parameters are well-selected, a formerly unhealable condition can be completely cured. Ulcus cruris varicosum: Irradiate daily for the first few sessions, then 2 or 3x a week. Irradiate at the edges of the ulcer. 1st and 2nd part of therapy should be understood as two parts of one therapy session. (345)

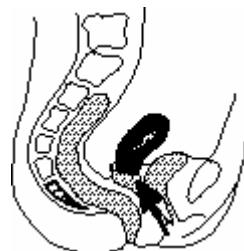
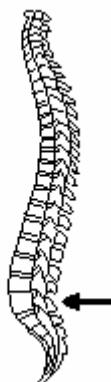
**9 4 ABSCESSUS GLANDULAE BARTHOLINI**

Program	L-0500
	abscessus glandulae bartholini
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	daily – every other day
Number of treatments	10
Note	At acute inflammation in the initial stage irradiate place of erythema. At chronic inflammation irradiate Bartholini's gland duct. Laser therapy has anti-inflammatory, analgesic and anti-edematous effects. (347)



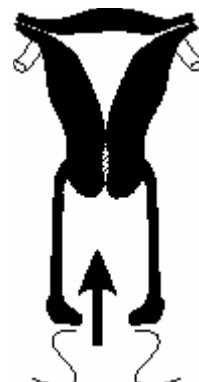
95 ALGOMENORRHOEA

Program L-0501
algomenorrhoea
Therapy parameters Dosage: 2 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9.12 Hz
Duty factor (DF): 80 %
Probe red / infrared
Frequency of treatments 1 – 3
Number of treatments 10
Note Start irradiating one week before menstruation.
Irradiate by using gynecological specula with special gynecological optical attachment.
Irradiate area of parametrium and uterosacral ligaments, sacrum fossa or trigger points.
Dysmenorrhe – irradiate 1 - 3 times daily and repeat in 2 - 3 menstrual cycles.
(348)



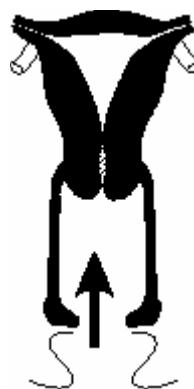
96 CERVICITIS ACUTA

Program L-0502
cervicitis acuta
Therapy parameters Dosage: 2 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %
Probe red
(349)



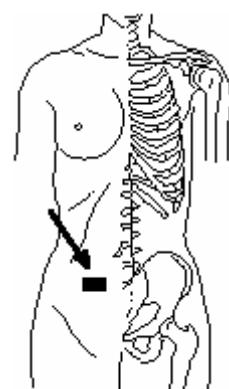
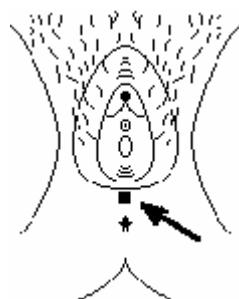
97 CERVICITIS CHRONICA

Program L-0503
cervicitis chronica
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9.12 Hz
Duty factor (DF): 80 %
Probe red
(350)



98 CICATRIX CHELOIDUM

Program L-0504
cicatrix cheloidum
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9 Hz
Duty factor (DF): 80 %
Probe red
(351)



99 CICATRIX RECENS (1)

Program L-0505
 cicatrix recens (1)

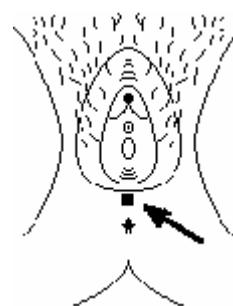
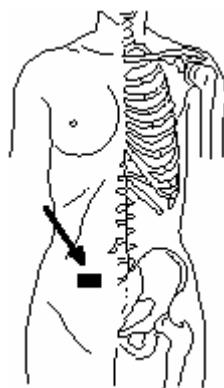
Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe red

Frequency of treatments daily - 3x per week

Number of treatments 5 – 15

Note Irradiate the whole scar.
 Begin irradiation immediately after surgery.
 Acute cases: set a lower dose and irradiate more frequently.
 Chronic cases: set a higher dose and irradiate less frequently.
 Good laser therapy results can be achieved with burns, ulcers and keloid scars.
 According to some experts, it is advisable to irradiate the area 2-3 days prior to surgery, or during the surgery itself.
 Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
 Laser treatment has an analgesic effect, and also reduces infiltration, swelling and haematoma.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (352)

**100 COLPITIS ACUTA**

Program L-0507
 colpitis acuta

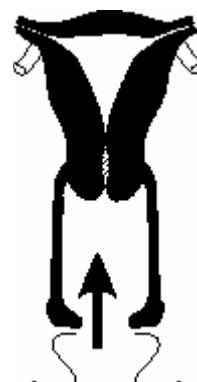
Therapy parameters Dosage: 2 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe red

Frequency of treatments daily

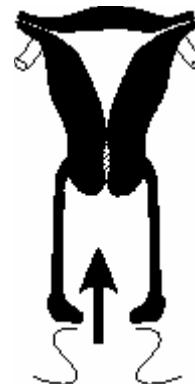
Number of treatments 3 - 8

Note Irradiate by maximum dilatation of gynecological specula first in horizontal and second in vertical position.
 (353)

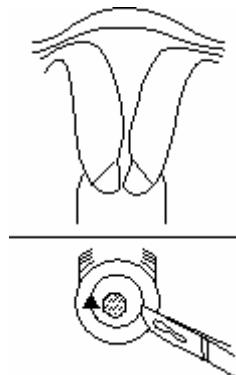


101 COLPITIS CHRONICA

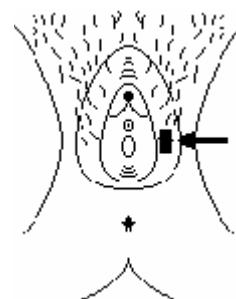
Program	L-0508 colpitis chronica
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 9.12 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	daily
Number of treatments	3 - 8
Note	Irradiate by maximum dilatation of gynecological specula first in horizontal and second in vertical position. (354)

**102 CONISATIO COLLI UTERI**

Program	L-0509 conisatio colli uteri
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 10 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	2
Number of treatments	1 - 5
Note	Malignity must be excluded prior to irradiation. One session after conization, other irradiation in the course of healing process. Laser therapy decreases exudation during post-operative days, and fastens healing effects. (355)

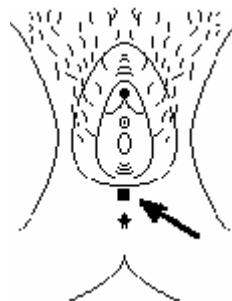
**103 DYSTROPHIA VULVAE (1)**

Program	L-0511 dystrophia vulvae (1)
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 10 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	1st week daily, then 2-3 per week
Number of treatments	5 - 15
Note	Directly irradiate the affected area. Laser therapy has analgesic, stimulating and anti-pruritic effect. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (356)

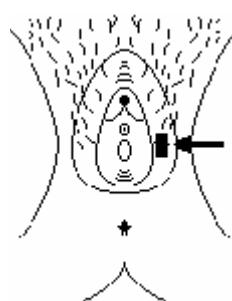


104 HAEATOMA

Program L-0513
 haematoma
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9 Hz
 Duty factor (DF): 80 %
 Probe red
 Frequency of treatments daily
 Number of treatments 3 – 7
 Note Suture haematoma: apply frequency 5-10 Hz;
 density 0.9-1 J/cm² (if very painful, 1-4 J/cm²).
 Irradiate around the suture.
 Laser therapy has analgesic and anti-
 edematous effect.
 Increases absorption of haematoma.
 (357)

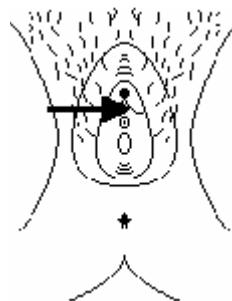
**105 HERPES GENITALIS (1)**

Program L-0514
 herpes genitalis (1)
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9 Hz
 Duty factor (DF): 80 %
 Probe red
 Frequency of treatments 1st day 1-2x, then daily
 Number of treatments 3 – 6
 Note Irradiate at the first signs of tension in the tissue.
 Results are better when started in the early
 stages of the condition.
 Irradiate at the edges of the lesion.
 Doses of sufficient strength must be given
 because herpes can worsen if only a stimulatory
 dose is given.
 During the therapy session, irradiate first with
 continuous mode and then with pulse frequency.
 Irradiation reduces pain.
 Normal healing takes 8-12 days, but only 2-4
 days with laser therapy.
 Reduces recurrence of the condition.
 Prevents the forming of blisters.
 Has a healing, analgesic, and anti-edema effect.
 In pregnancy recommend laser therapy because
 of contraindication of treatment with chemical
 drugs /acyclovir/.
 1st part of therapy and 2nd part of therapy
 should be understood as two parts of one
 therapy session.
 (358)

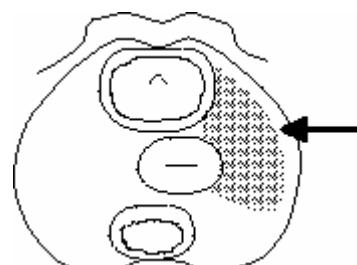
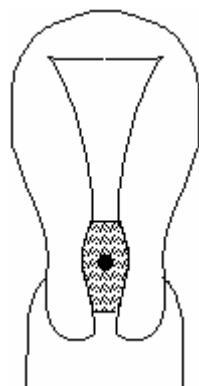


106 INCONTINENTIA URINAE

Program L-0516
 incontinentia urinæ
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9.4 Hz
 Duty factor (DF): 80 %
 Probe red
 Frequency of treatments daily – every other day
 Number of treatments 6 - 10
 Note Irradiate direct suture of surgical field, irradiate vagina in area of trigon urinary bladder.
 Density and frequency is depending on function of urinary bladder.
 Apply daily or each second day depending on reaction of the patient.
 (359)

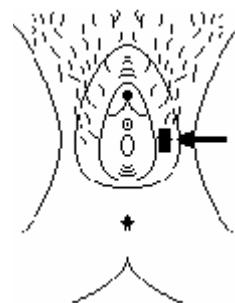
**107 PARAMETRITIS**

Program L-0517
 parametritis
 Therapy parameters Dosage: 2 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5.5 Hz
 Duty factor (DF): 80 %
 Probe red
 Frequency of treatments daily – every other day
 Number of treatments 10
 Note Inflammation around uterus and vagina has origin in infection in cervix.
 Laser therapy has anti-inflammatory and analgesic effect.
 More suitable for chronic, rather than acute processes.
 (360)



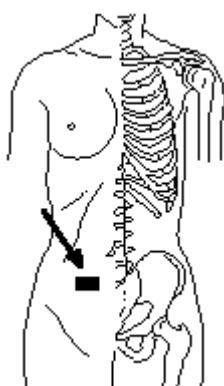
108 PRURITUS

Program L-0518
pruritus
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %
red
Probe
Frequency of treatments 1st week every day, than 2-3 per week
Number of treatments 3 – 10
Note Irradiate all area from 1 cm distance from
surface skin.
Laser therapy helps to eliminate discomfort of
the patient.
Laser therapy has analgesic, stimulation and
anti-pruritis effect.
(361)



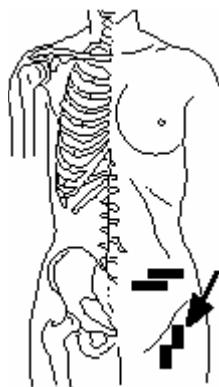
109 SANATIO POSTOPERATIVA

Program L-0519
sanatio postoperatoriva
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %
red
Probe
(362)

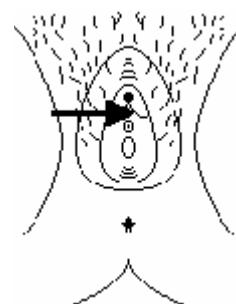


110 STRIAE

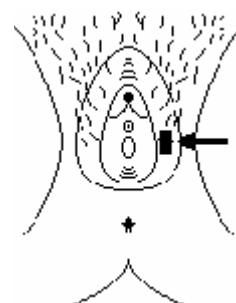
Program	L-0520
striae	
Therapy parameters	
Dosage: 4 J/cm ²	
Power: by probe	
Irradiated area: 1 cm ²	
Frequency: 8.4 Hz	
Duty factor (DF): 80 %	
Probe	red
Frequency of treatments	2 – 3
Number of treatments	20 – 30
Note	Results are better when started in the early stages of the condition. The older stria, the longer treatment – 100 sessions possible. (363)

**111 UROCYSTIS-IRRITABILIS**

Program	L-0521
urocystis-irritabilis	
Therapy parameters	
Dosage: 2 J/cm ²	
Power: by probe	
Irradiated area: 1 cm ²	
Frequency: 9.4 Hz	
Duty factor (DF): 80 %	
Probe	red
Frequency of treatments	daily – every other day
Number of treatments	6 – 12
Note	Irradiate front part of vagina with density 0.5 – 0.7 J/cm ² . Combine with point irradiation of sacrum fossa with density 0.1 J/cm ² . Should no considerable improvement occur within 10 sessions, it is recommended discontinue the laser therapy. (364)

**112 VULVITIS**

Program	L-0522
vulvitis	
Therapy parameters	
Dosage: 3 J/cm ²	
Power: by probe	
Irradiated area: 1 cm ²	
Frequency: 5 Hz	
Duty factor (DF): 80 %	
Probe	red
Frequency of treatments	daily – 2 - 3x per week
Number of treatments	3 - 6
Note	Irradiate affected area directly or in cavity. Apply the therapy before and after opening cavity, possibly also after drainage of pyogenic focus. 1st day apply 1 - 2 sessions, next days 2 - 3 sessions per week. (365)



113 CICATRIX RECENS (1)

Program L-0600
cicatrix recens (1)

Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.

Probe red

Frequency of treatments daily - 3x per week

Number of treatments 5 - 15

Note Irradiate the entire scar.
Begin irradiation immediately after surgery.
Acute cases: set a lower dose and irradiate more frequently.
Chronic cases: set a higher dose and irradiate less frequently.
Good laser therapy results can be achieved with burns, ulcers and keloid scars.
According to some experts it is advisable to irradiate the planned area 2 - 3 days in advance, or during the actual surgery.
Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
Laser treatment has an analgesic effect; also reduces infiltration, swelling and haematoma.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(367)



114 CICATRIX RECENS (2)

Program L-0601
 cicatrix recens (2)

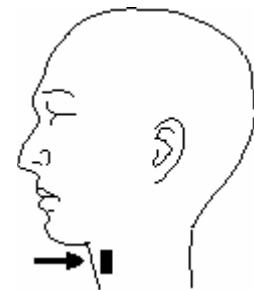
Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe red

Frequency of treatments daily - 3x per week

Number of treatments 5 - 15

Note Irradiate the entire scar.
 Begin irradiation immediately after surgery.
 Acute cases: set a lower dose and irradiate more frequently.
 Chronic cases: set a higher dose and irradiate less frequently.
 Good laser therapy results can be achieved with burns, ulcers and keloid scars.
 According to some experts it is advisable to irradiate the planned area 2 - 3 days in advance, or during the actual surgery.
 Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
 Laser treatment has an analgesic effect; also reduces infiltration, swelling and haematoma.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (368)

**115 FURUNCULUS**

Program L-0602
 furunculus

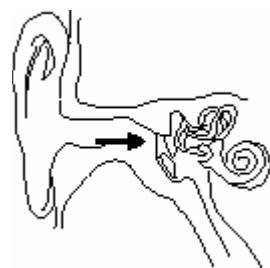
Therapy parameters Dosage: 2 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 1.7 Hz
 Duty factor (DF): 80 %

Probe red

Frequency of treatments 3

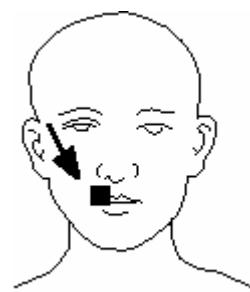
Number of treatments 3

Note Irradiate affected areas.
 Results are better when started in the early stages of the condition.
 Laser treatment has an anti-inflammatory effect.
 (369)



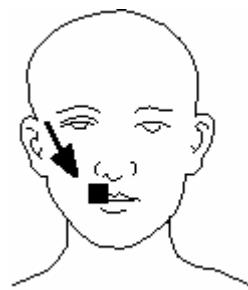
116 HERPES (1)

Program L-0603
herpes (1)
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): 80 %
Probe red / infrared
Frequency of treatments daily – every other day
Number of treatments 3 - 5
Note Probe: use red light for lips and mucosa, and infrared light for skin.
Apply at the first signs of tension in the tissue.
Results are better when started in the early stages of the condition.
Apply at the edges of the lesion.
A strong dose must be applied because herpes can worsen if only a stimulatory density is used.
During the same therapy session, irradiate first with continuous mode and then with pulse frequency.
Irradiation reduces pain.
Normal healing takes 8-12 days, but only 2-4 days with laser therapy.
Reduces recurrence of the condition.
Prevents the forming of blisters.
Laser therapy has a healing, analgesic anti-edema effect.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(370)

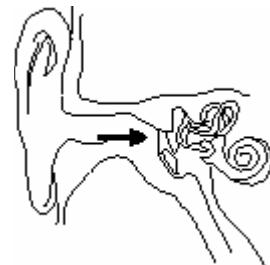


117 HERPES (2)

Program	L-0604 herpes (2)
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red / infrared
Frequency of treatments	daily – every other day
Number of treatments	3 - 5
Note	Probe: use red light for lips and mucosa, and infrared light for skin. Apply at the first signs of tension in the tissue. Results are better when started in the early stages of the condition. Apply at the edges of the lesion. A strong dose must be applied because herpes can worsen if only a stimulatory density is used. During the same therapy session, irradiate first with continuous mode and then with pulse frequency. Irradiation reduces pain. Normal healing takes 8-12 days, but only 2-4 days with laser therapy. Reduces recurrence of the condition. Prevents the forming of blisters. Laser therapy has a healing, analgesic anti-edema effect. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (371)

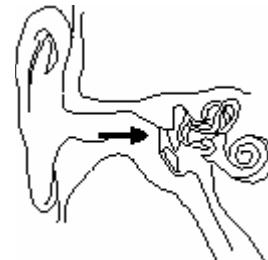
**118 OTITIS MEDIA ACUTA (1)**

Program	L-0605
Therapy parameters	otitis media acuta (1) Dosage: 5 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: Cont. Duty factor (DF): Cont.
Probe	infrared
Frequency of treatments	3
Number of treatments	3 - 5
Note	Laser treatment has an anti-inflammatory effect. Pain will stop following the first irradiation session, but begin again a few hours later. Laser therapy must be combined with antibiotics. At the beginning of laser therapy, irradiate daily or every two days. After initial treatments, increase the time duration between sessions. Apply laser light with special optical attachment. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (372)

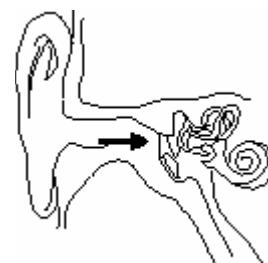


119 OTITIS MEDIA ACUTA (2)

Program	L-0606 otitis media acuta (2)
Therapy parameters	Dosage: 5 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	3
Number of treatments	3 - 5
Note	Laser treatment has an anti-inflammatory effect. Pain will stop following the first irradiation session, but begin again a few hours later. Laser therapy must be combined with antibiotics. At the beginning of laser therapy, irradiate daily or every two days. After initial treatments, increase the time duration between sessions. Apply laser light with special optical attachment. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (373)

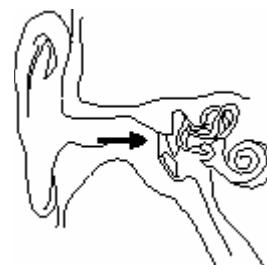
**120 OTITIS MEDIA CHRONICA**

Program	L-0607 otitis media chronica
Therapy parameters	Dosage: 7 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	3 (daily when relapse)
Number of treatments	3 - 5
Note	Irradiate affected area. Laser treatment in combination with medical drugs has an anti-inflammatory effect. Laser therapy has an analgesic, anti-inflammatory effect, and hastens healing. Apply laser light with special optical attachment. (374)

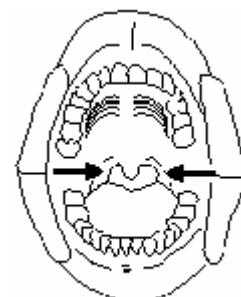


121 PERFORATIO MEMBRANAE TYMPANI TRAUMATICI

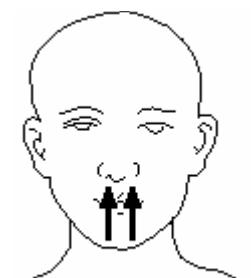
Program	L-0608 perforatio membranae tympani traumatici
Therapy parameters	Dosage: 1.6 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 8.4 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	every other day
Number of treatments	2 - 4
Note	For non-inflamed perforation of the tympanic membrane, apply laser therapy for 5 - 7 sessions. Laser therapy has an analgesic effect. Apply laser light with special optical attachment. (375)

**122 PHARYNGITIS**

Program	L-0609 pharyngitis
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	every other day
Number of treatments	5
Note	Laser therapy decreases the pain of swallowing. Irradiate the affected area where the edema is located, and where there is red inflammation around the tonsillar pillar. Also apply under both sides of the mandibular arc. Apply laser light with special optical attachment. (376)

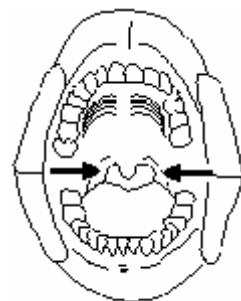
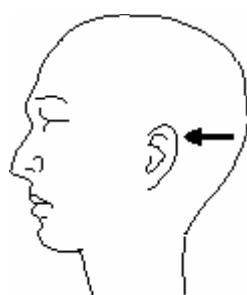
**123 RHINITIS VASOMOTORICA**

Program	L-0610 rhinitis vasomotorica
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 4.5 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	2
Number of treatments	3 - 10
Note	Laser therapy brings better results from a rhinoscopy by decreasing edema of the mucosa and secretion. Apply laser light with special optical attachment. (377)

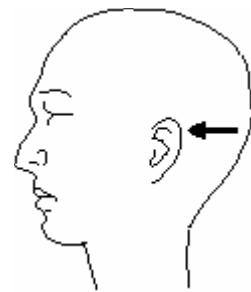


124 SANATIO POSTOPERATIVA

Program	L-0611 sanatio postoperativa
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	every other day
Number of treatments	3 - 5
Note	Accelerates healing of the wound. Improves blood supply. Reduces complications. Positive effects are usually visible after the second therapy. Laser therapy has an analgesic, anti-inflammatory, bio-stimulatory and anti-edema effect. Apply laser light with special optical attachment. (378)

**125 SANATIO POSTTREPANATIONIS**

Program	L-0612 sanatio posttrepanationis
Therapy parameters	Dosage: 1.6 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	every other day
Number of treatments	5 - 9
Note	Apply laser therapy after irrigation of the trepanation cavity. Laser therapy has an antiseptic effect. (379)



126 SINUSITIS ACUTA

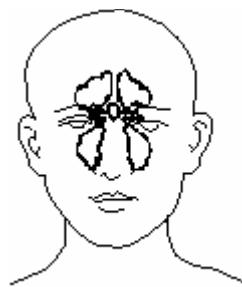
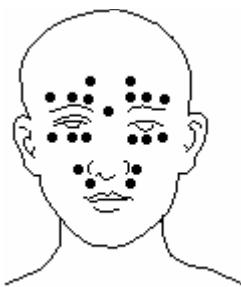
Program L-0613
 sinusitis acuta

Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 2 - 3
 Number of treatments 5 - 10

Note For acute sinusitis, apply laser power of 5 - 6 J/cm². Apply 4 J/cm² on the infraorbital foramen and the remaining power on the area above the second upper molar.
 For persistent conditions, apply laser therapy with 10 session cycles.
 Laser therapy has an analgesic and anti-inflammatory effect.
 (380)

**127 SINUSITIS CHRONICA**

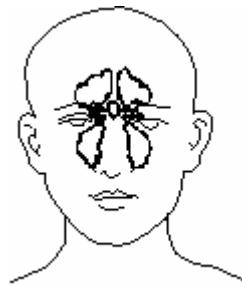
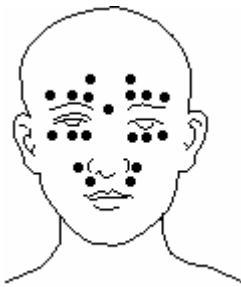
Program L-0614
 sinusitis chronica

Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe infrared

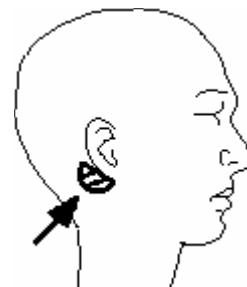
Frequency of treatments 2 - 3
 Number of treatments 5 - 10

Note For acute sinusitis, apply laser power of 5 - 6 J/cm². Apply 4 J/cm² on the infraorbital foramen and the remaining power on the area above the second upper molar.
 For persistent conditions, apply laser therapy with 10 session cycles.
 Laser therapy has an analgesic and anti-inflammatory effect.
 (381)



128 TINNITUS (1)

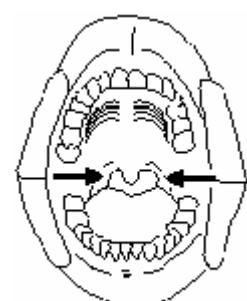
Program	L-0615 tinnitus (1)
Therapy parameters	Dosage: 10 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: Cont. Duty factor (DF): Cont.
Probe	infrared
Frequency of treatments	1 - 2
Number of treatments	5 - 10
Note	Combine treatment with manipulative therapy of the spine. Irradiate mastoid areas. Focus laser beam in the direction of the opposite orbit. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (382)

**129 TINNITUS (2)**

Program	L-0616 tinnitus (2)
Therapy parameters	Dosage: 10 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	1 - 2
Number of treatments	5 - 10
Note	Combine treatment with manipulative therapy of the spine. Irradiate mastoid areas. Focus laser beam in the direction of the opposite orbit. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (383)

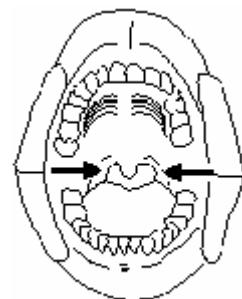
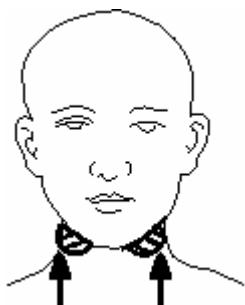
**130 TONSILLECTOMIA**

Program	L-0617 tonsillectomia
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 9.12 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	2
Number of treatments	3
Note	Apply laser light with special optical attachment. Laser therapy has an analgesic effect and hastens healing. Watch for hematorrhea. (384)

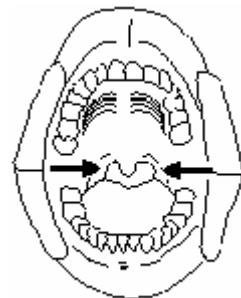


131 TONSILLITIS

Program	L-0618 tonsillitis
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red / infrared
Frequency of treatments	daily - 2x per week
Number of treatments	4 - 10
Note	Irradiate directly the tonsils or apply the laser light through the regio submandibularis. Indication: tonsillitis chronica et recidivans. The laser therapy reduces recurrence of the condition. For easy course of the affection use the laser therapy. The confinement to bed is recommended for the pyrexia. If there is no inflammation after 2 month, the laser therapy had a positive effect. The hyperthermia and exacerbation of the process reappeared by 5% of patients. The laser radiation is considered as the provocation test. (385)

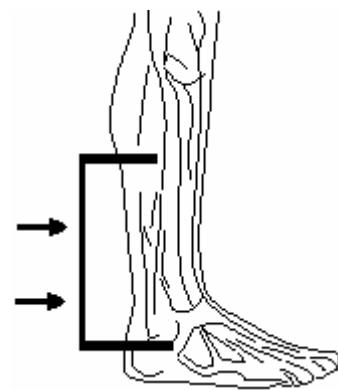
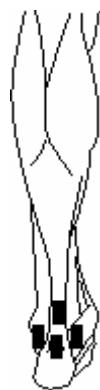
**132 TONSILLOPHARYNGITIS**

Program	L-0619 tonsilopharyngitis
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	2
Number of treatments	4 - 6
Note	Positive results occur after 2 sessions. Simultaneous tonsillitis and pharyngitis is very often recidivative and can reoccur up to 6 times a year. Laser therapy reduces recurrence to 0 - 2 times per year. Laser therapy has an anti-inflammatory effect. Apply laser light with special optical attachment. (386)



133 ACHILLODYNTIA (1)

Program L-0700
achillodynia (1)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
Frequency of treatments daily
Number of treatments 8 - 10 (min. 5)
Note Irradiate as in post-surgical states or Haglund's exostosis.
Laser therapy has an analgesic, anti-edema effect, and shortens wound healing.
Analgesic effect is noticeable after the first session.
Acute cases (sport injuries) irradiate daily.
Therapy can be combined with magnetic pulse field or ultrasound.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(388)



134 ACHILLODYNTIA (2)

Program L-0701
achillodynia (2)

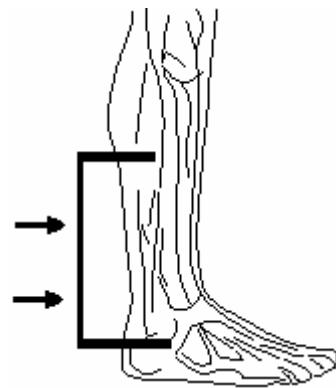
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments daily

Number of treatments 8 - 10 (min. 5)

Note Irradiate as in post-surgical states or Haglund's exostosis.
Laser therapy has an analgesic, anti-edema effect, and shortens wound healing.
Analgesic effect is noticeable after the first session.
Acute cases (sport injuries) irradiate daily.
Therapy can be combined with magnetic pulse field or ultrasound.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(389)



135 ARTHRITIS

Program L-0702
arthritis

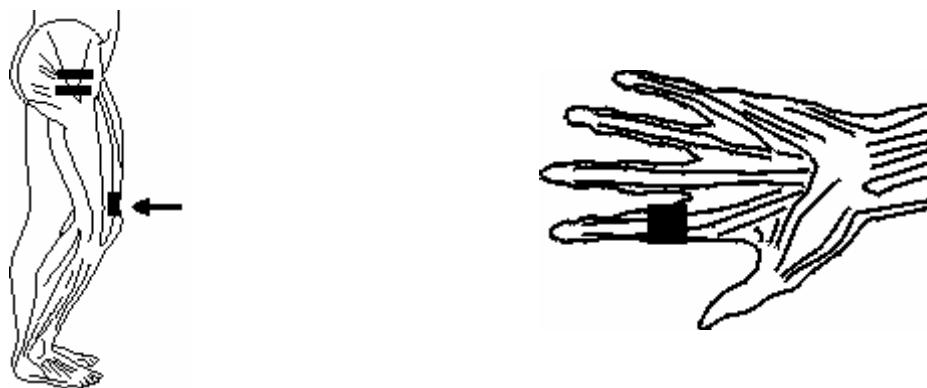
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 8.6 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 3

Number of treatments 15 - 50

Note When irradiating at early stages of the disease, morning stiffness is eliminated, and joint mobility is extended. After additional irradiation, swelling decreases and further inflammation is reduced.
Laser therapy, in combination with traditional medical treatment, can prevent or stop further development of the disease without any deformation occurring.
In advanced stages, laser therapy reduces swelling and pain, and has an anti-fibrotic effect.
(390)



136 ARTHRITIS RHEUMATICA (1)

Program L-0703
arthritis rheumatica (1)

Therapy parameters Dosage: 6 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.

Probe infrared

Frequency of treatments 2

Number of treatments 10

Note Laser therapy can also be used for other joints affected by rheumatoid diseases.
Excellent clinical effect with patients using corticoids. Dosage of corticoids can usually be lowered or eliminated altogether.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(391)



137 ARTHRITIS RHEUMATICA (2)

Program L-0704
arthritis rheumatica (2)

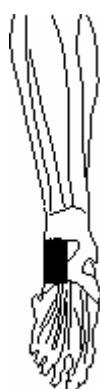
Therapy parameters Dosage: 6 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9.12 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 2

Number of treatments 10

Note Laser therapy can also be used for other joints affected by rheumatoid diseases.
Excellent clinical effect with patients using corticoids. Dosage of corticoids can usually be lowered or eliminated altogether.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(392)



138 ARTHRITIS URATICA

Program L-0705
arthritis uratica

Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9 Hz
Duty factor (DF): 80 %

Probe infrared
(393)



139 ARTHROSIS (1)

Program L-0706
arthritis (1)

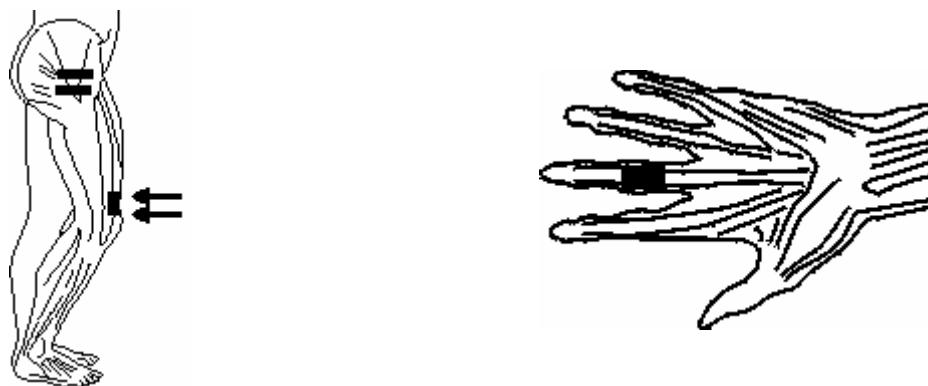
Therapy parameters Dosage: 6 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.

Probe infrared

Frequency of treatments 2 – 3

Number of treatments min. 10

Note Irradiate affected joint structure (Laser acupuncture can be used for trigger and acupuncture points, hyperalgesic zones, paravertebral points, as well as acupuncture points on the ear. Density: 1-3 J/cm²).
Acute pain: Use continuous mode and 5 Hz frequency in the same therapy session.
Chronic pain: Use 10 Hz frequency.
Laser therapy has an analgesic effect, and with rheumatism, an anti-inflammatory effect.
Local application of non-steroid, anti-rheumatoid drugs are sometimes recommended.
Clinical effect is best with smaller joints, such as in the hand or wrist. Treat deeply placed joints or joints of obese patients with higher density.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(394)



140 ARTHROSIS (2)

Program L-0707
arthritis (2)

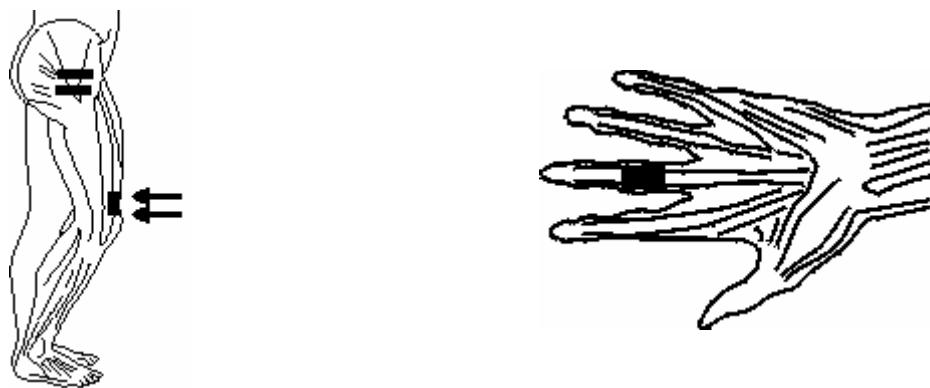
Therapy parameters Dosage: 6 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 2 – 3

Number of treatments min. 10

Note Irradiate affected joint structure (Laser acupuncture can be used for trigger and acupuncture points, hyperalgesic zones, paravertebral points, as well as acupuncture points on the ear. Density: 1-3 J/cm²).
Acute pain: Use continuous mode and 5 Hz frequency in the same therapy session.
Chronic pain: Use 10 Hz frequency.
Laser therapy has an analgesic effect, and with rheumatism, an anti-inflammatory effect.
Local application of non-steroid, anti-rheumatoid drugs are sometimes recommended.
Clinical effect is best with smaller joints, such as in the hand or wrist. Treat deeply placed joints or joints of obese patients with higher density.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(395)



141 BURSITIS (1)

Program L-0708
bursitis (1)

Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.

Probe infrared

Frequency of treatments 1 – 2
Number of treatments 4 – 16

Note Irradiate the affected area.
Laser therapy has an analgesic, anti-edema effect.
Acute cases: irradiate daily.
Combining the treatment with ultrasound is recommended.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(396)



142 BURSITIS (2)

Program L-0709
 bursitis (2)

Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9.12 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 1 – 2

Number of treatments 4 – 16

Note Irradiate the affected area.
 Laser therapy has an analgesic, anti-edema effect.
 Acute cases: irradiate daily.
 Combining the treatment with ultrasound is recommended.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (397)

**143 CALCAR CALCANEI (1)**

Program L-0710
 calcar calcanei (1)

Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.

Probe infrared
 (398)



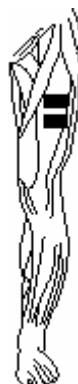
144 CALCAR CALCANEI (2)

Program L-0711
calcar calcanei (2)
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9.12 Hz
Duty factor (DF): 80 %
Probe infrared
(399)



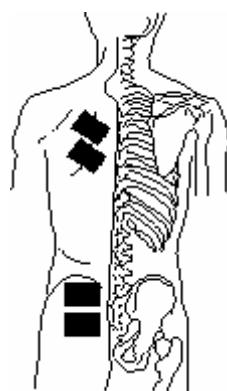
145 CONTUSIO

Program L-0712
contusio
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe infrared
Frequency of treatments 5
Number of treatments 5 – 10
Note Irradiate as soon as possible after injury, which hastens analgesic effect, prevents edema.
When irradiation is applied immediately after injury, use density of 1.0 J/cm².
Irradiate to decrease pain, edema and to absorb a hematoma.
Use 8 Hz anti-edema frequency.
(400)

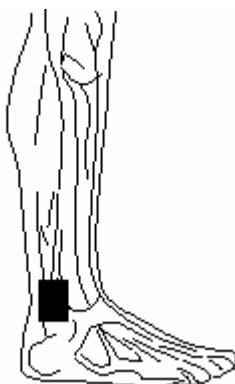


146 DECUBITUS

Program L-0713
 decubitus
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 6 Hz
 Duty factor (DF): 80 %
 Probe red
 Frequency of treatments daily
 Number of treatments min. 1 – 2
 Note Laser therapy has an analgesic and healing effect.
 Chronic disease: daily irradiation is recommended.
 (401)

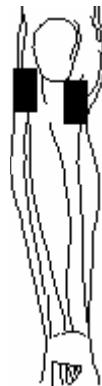
**147 DISTORSIO**

Program L-0714
 distorsio
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments daily
 Number of treatments 5 - 10
 Note Apply laser therapy as soon as possible.
 Laser therapy has a quick analgesic effect, prevents edema development, and hastens absorption of hematoma.
 8 Hz frequency can be sometimes chosen for its anti-edema effect.
 Immediately after the injury, a density of 1 J/cm² is sufficient.
 The analgesic effect should not be a reason to leave out fixation.
 (402)

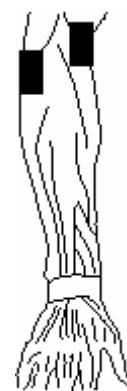
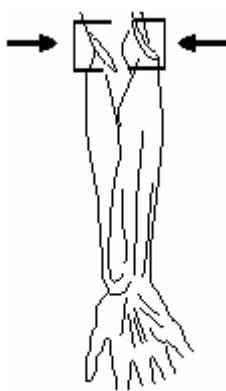


148 ENTHESOPATHIA

Program L-0715
 Therapy parameters
 Dosage: 5 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments daily
 Number of treatments 5 – 10
 Note Laser therapy has an analgesic effect.
 Irradiate affected area.
 (403)

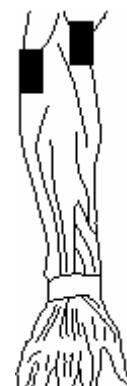
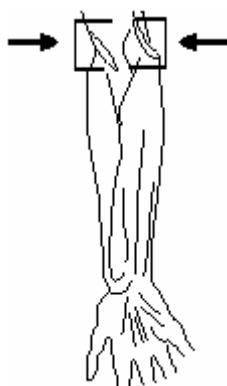
**149 EPICONDYLITIS (1)**

Program L-0716
 Therapy parameters
 Dosage: 7 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.
 Probe infrared
 Frequency of treatments 2 – 3
 Number of treatments 10 (min. 6)
 Note Combine continuous and pulse beam.
 Laser therapy has an analgesic and anti-phlogistic effect.
 Remember that epicondylitis is usually caused by a problem in the neck part of the spine, which requires rehabilitative therapy.
 Sufficient laser power is necessary.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (404)



150 EPICONDYLITIS (2)

Program L-0717
 epicondylitis (2)
 Therapy parameters Dosage: 7 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments 2 – 3
 Number of treatments 10 (min. 6)
 Note Combine continuous and pulse beam.
 Laser therapy has an analgesic and anti-phlogistic effect.
 Remember that epicondylitis is usually caused by a problem in the neck part of the spine, which requires rehabilitative therapy.
 Sufficient laser power is necessary.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (405)

**151 CHONDROPATHIA PATELAE**

Program L-0718
 chondropathia patelae
 Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments varies
 Number of treatments 6 – 8
 Note Irradiate the affected areas.
 (406)



152 INDURATIO PENIS PLASTICA (1)

Program	L-0719 induratio penis plastica (1)
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: Cont. Duty factor (DF): Cont.
Probe	infrared
Frequency of treatments	2 – 3
Number of treatments	min. 8 – 10
Note	First results occur after 5 – 6 therapies. Apply continuous mode combined with pulse frequency. Laser therapy brings relaxation, fibroblast activation, fibrin absorption and an antiphlogistic effect. Therapy relieves subjective problems and causes loosening of the contracture. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (407)

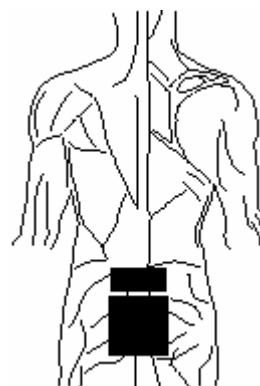
**153 INDURATIO PENIS PLASTICA (2)**

Program	L-0720 induratio penis plastica (2)
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	2 – 3
Number of treatments	min. 8 – 10
Note	First results occur after 5 – 6 therapies. Apply continuous mode combined with pulse frequency. Laser therapy brings relaxation, fibroblast activation, fibrin absorption and an antiphlogistic effect. Therapy relieves subjective problems and causes loosening of the contracture. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (408)

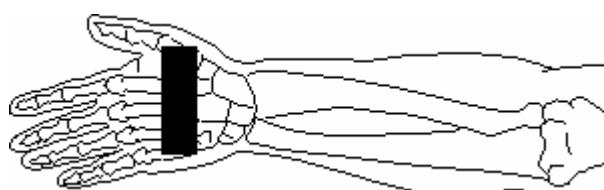
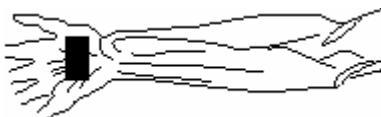


154 ISCHIALGIA

Program L-0721
 ischialgia
 Therapy parameters Dosage: 5 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9.12 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments 4
 Number of treatments 12
 Note Irradiate at location of ischialgia, L4 - L5 or L5 - S1.
 Irradiate along the nerve and painful points of the paravertebral muscles, Valleix
 points along the whole nerve, homo-laterally and contra-laterally.
 (409)

**155 MORBUS DUPUYTRENE (1)**

Program L-0722
 morbus dupuytrene (1)
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.
 Probe infrared
 Frequency of treatments 2 – 3
 Number of treatments min. 8 – 10
 Note First results occur after 5 or 6 therapy sessions.
 Combine continuous mode with pulse frequency.
 Laser therapy brings relaxation, fibroblast activation, fibrin absorption and
 antiphlogistic effect.
 Relieves subjective problems and causes loosening of the contracture.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one
 therapy session.
 (410)



156 MORBUS DUPUYTRENE (2)

Program L-0723
 morbus dupuytrene (2)

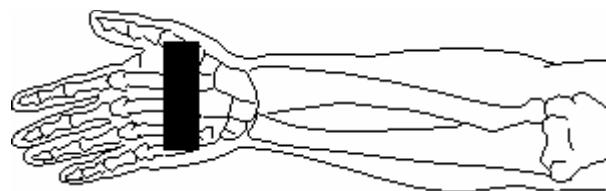
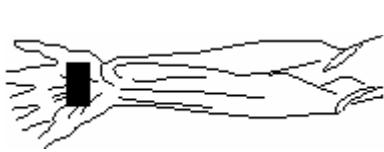
Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 2 – 3

Number of treatments min. 8 – 10

Note First results occur after 5 or 6 therapy sessions.
 Combine continuous mode with pulse frequency.
 Laser therapy brings relaxation, fibroblast activation, fibrin absorption and antiphlogistic effect.
 Relieves subjective problems and causes loosening of the contracture.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (411)

**157 MYORELAXATIO**

Program L-0724
 myorelaxatio

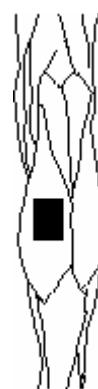
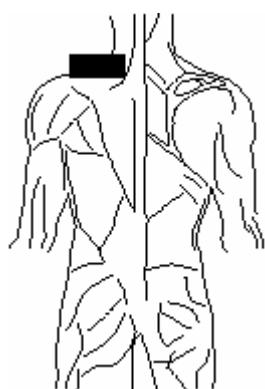
Therapy parameters Dosage: 7 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments daily

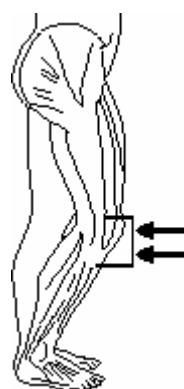
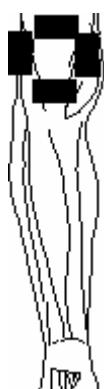
Number of treatments 5 (min. 2 - 3)

Note Laser therapy has an analgesic effect, and causes myorelaxation and edema regression.
 Results occur after the first treatment.
 Apply to the area of the muscle contracture.
 (412)



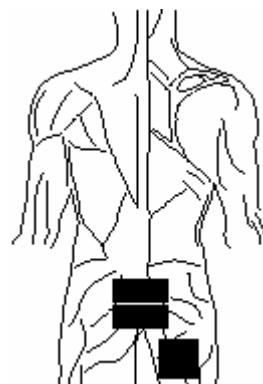
158 OEDEMA

Program L-0725
oedema
Therapy parameters Dosage: 2 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 2.4 Hz
Duty factor (DF): 80 %
Probe infrared
Frequency of treatments 3 – 5
Number of treatments 5 – 15
Note Irradiate the affected areas.
(413)



159 SACRALGIA

Program L-0726
sacralgia
Therapy parameters Dosage: 10 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9.12 Hz
Duty factor (DF): 80 %
Probe infrared
Frequency of treatments 3
Number of treatments 12
Note Irradiate lumbo-sacral joints, from upper to lower spine, also contra-laterally to the sacro-iliac.
Use laser prior to manipulation therapy on the blockage.
(414)



160 SPINA DORSALIS (DORSALGIA) (1)

Program L-0727
spina dorsalis (dorsalgia) (1)

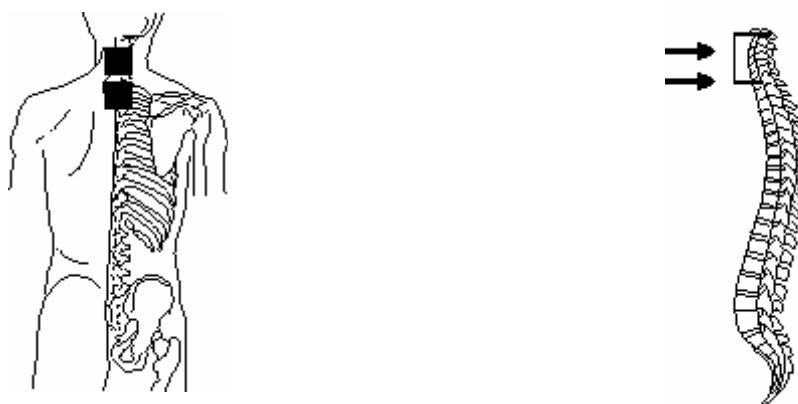
Therapy parameters Dosage: 9 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.

Probe infrared

Frequency of treatments daily

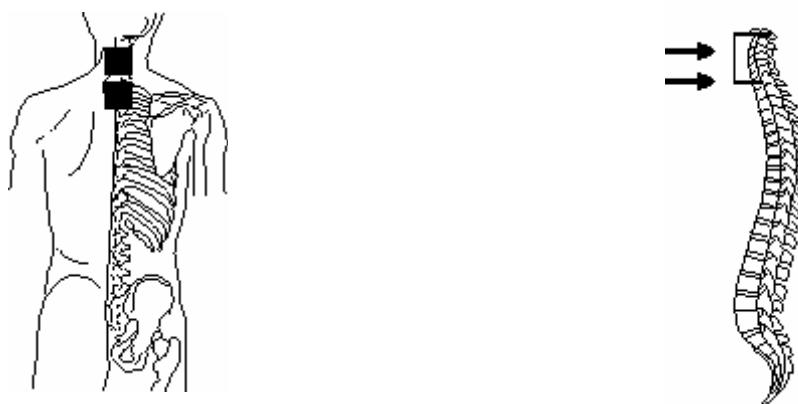
Number of treatments 6 – 10 (minimum of 5)

Note Laser therapy has an analgesic effect and myorelaxation.
Analgesic effect results occur after first procedure.
For acute pain, provide laser therapy daily.
Sometimes combined with magnetic pulse field.
Irradiate the part of spine that is affected.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(415)

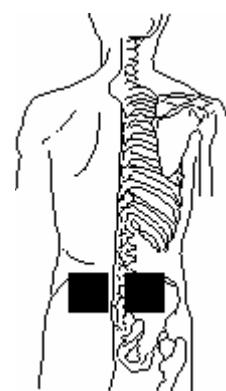


161 SPINA DORSALIS (DORSALGIA) (2)

Program L-0728
 spina dorsalis (dorsalgia) (2)
 Therapy parameters Dosage: 9 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments daily
 Number of treatments 6 – 10 (minimum of 5)
 Note Laser therapy has an analgesic effect and myorelaxation.
 Analgesic effect results occur after first procedure.
 For acute pain, provide laser therapy daily.
 Sometimes combined with magnetic pulse field.
 Irradiate the part of spine that is affected.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (416)

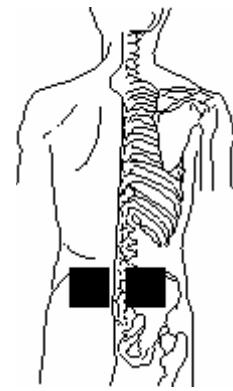
**162 SPONDYLARTHROSIS ANCYLOPOETICA (1)**

Program L-0729
 spondylarthrosis ankylopoetica (1)
 Therapy parameters Dosage: 5 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments varies
 Number of treatments 6 – 8
 Note Acute pain: irradiate area of the affected joint.
 Use continuous mode and frequency of 10 Hz
 for pain; if there is no pain, use continuous
 mode at 5 Hz.
 1st part of therapy and 2nd part of therapy
 should be understood as two parts of one
 therapy session.
 (417)

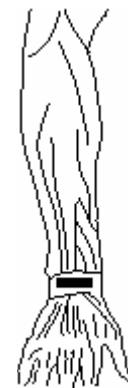


163 Spondylarthritis ankylopoetica (2)

Program	L-0730 spondylarthritis ankylopoetica (2)
Therapy parameters	Dosage: 5 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 10 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	varies
Number of treatments	6 – 8
Note	Acute pain: irradiate area of the affected joint. Use continuous mode and frequency of 10 Hz for pain; if there is no pain, use continuous mode at 5 Hz. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (418)

**164 S.Y. CANALI CARPI**

Program	L-0731 sy. canali carpi
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 9.12 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	2
Number of treatments	5 – 8
Note	Apply laser therapy in the initial stages of the condition. Irradiate the annular ligament of the wrist. Laser therapy does not eliminate the cause, but it is a decompression radiation with an anti- inflammatory effect. Irradiate for anti-inflammatory effect prior to and post surgery. It is beneficial to use both analgesic frequency and the anti-edema frequency in the same therapy session. Important to diagnose the degree of the affection according to an EMG. (419)



165 SY. TIETZ (1)

Program L-0732
 sy. tietz (1)

Therapy parameters Dosage: 7 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.

Probe infrared

Frequency of treatments 1 – 2

Number of treatments 5 – 10

Note Laser therapy has an excellent clinical effect.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (420)

166 SY. TIETZ (2)

Program L-0733
 sy. tietz (2)

Therapy parameters Dosage: 7 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9.12 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 1 – 2

Number of treatments 5 – 10

Note Laser therapy has an excellent clinical effect.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (421)

167 SY. VERTEBRALIS

Program L-0734
 sy. vertebralitis

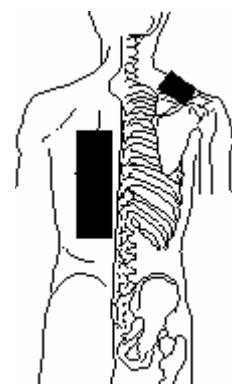
Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9.12 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 2 – 3

Number of treatments 5 - 10

Note Irradiate only the points where myogeloses occurs.
 Laser therapy has an analgesic and myorelaxation effect.
 Laser therapy as pre-medication has good results before using myoskeletal treatment.
 (422)



168 TENDOPATHIA (1)

Program L-0735
tendopathia (1)

Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.

Probe infrared
Frequency of treatments daily
Number of treatments 8 - 10 (min. 5)
Note Irradiate as in post-surgical states.
Laser therapy has an analgesic, anti-edema effect and hastens healing.
Analgesic effect is obvious after first therapy session.
Acute cases: irradiate daily.
Sometimes combined with a magnetic pulse field.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(423)



169 TENDOPATHIA (2)

Program L-0736
tendopathia (2)

Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments daily

Number of treatments 8 - 10 (min. 5)

Note Irradiate as in post-surgical states.
Laser therapy has an analgesic, anti-edema effect and hastens healing.
Analgesic effect is obvious after first therapy session.
Acute cases: irradiate daily.
Sometimes combined with a magnetic pulse field.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(424)



170 TENDOVAGINITIS (1)

Program L-0737
tendovaginitis (1)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
Frequency of treatments daily
Number of treatments 8 - 10 (min. 5)
Note Irradiate as in post-surgical states.
Laser therapy has an analgesic, anti-edema effect and hastens healing.
Analgesic effect is obvious after first therapy session.
Acute cases: irradiate daily.
Sometimes combined with a magnetic pulse field.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(425)

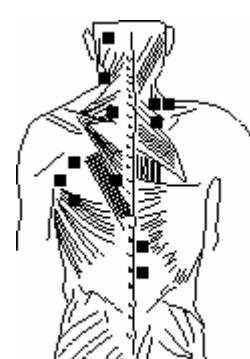


171 TENDOVAGINITIS (2)

Program L-0738
 tendovaginitis (2)
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments daily
 Number of treatments 8 - 10 (min. 5)
 Note Irradiate as in post-surgical states.
 Laser therapy has an analgesic, anti-edema effect and hastens healing.
 Analgesic effect is obvious after first therapy session.
 Acute cases: irradiate daily.
 Sometimes combined with a magnetic pulse field.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (426)

**172 ANALGIA**

Program L-0800
 analgia
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments daily
 Number of treatments varies
 Note Irradiate trigger points.
 (428)



173 CALCAR CALCANEI (1)

Program L-0801
Therapy parameters calcar calcanei (1)
Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
(429)



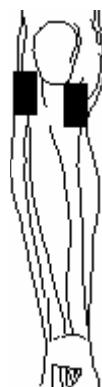
174 CALCAR CALCANEI (2)

Program L-0802
Therapy parameters calcar calcanei (2)
Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9.12 Hz
Duty factor (DF): 80 %
Probe infrared
(430)



175 ENTHESOPATHIA

Program L-0803
 enthesopathia
 Therapy parameters Dosage: 5 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments daily
 Number of treatments 5 – 10
 Note Laser therapy has an analgesic effect.
 Irradiate affected area.
 (431)

**176 INDURATIO PENIS PLASTICA (1)**

Program L-0804
 induratio penis plastica (1)
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.
 Probe infrared
 Frequency of treatments 2 – 3
 Number of treatments min. 8 – 10
 Note First results occur after 5 – 6 therapies.
 Apply continuous mode combined with pulse frequency.
 Laser therapy brings relaxation, fibroblast activation, fibrin absorption and an antiphlogistic effect.
 Therapy relieves subjective problems and causes loosening of the contracture.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (432)

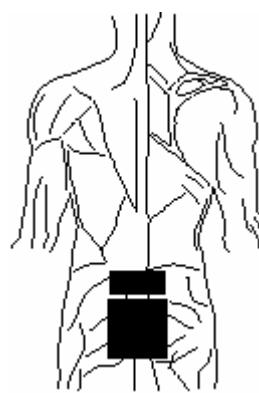


177 INDURATIO PENIS PLASTICA (2)

Program	L-0805 induratio penis plastica (2)
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	2 – 3
Number of treatments	min. 8 – 10
Note	First results occur after 5 – 6 therapies. Apply continuous mode combined with pulse frequency. Laser therapy brings relaxation, fibroblast activation, fibrin absorption and an antiphlogistic effect. Therapy relieves subjective problems and causes loosening of the contracture. 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session. (433)

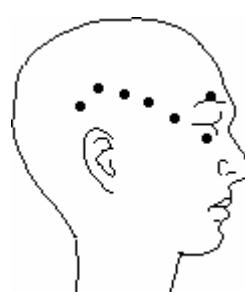
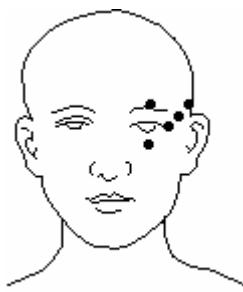
**178 ISCHIALGIA**

Program	L-0806 ischialgia
Therapy parameters	Dosage: 5 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 9.12 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	4
Number of treatments	12
Note	Irradiate at location of ischialgia, L4 - L5 or L5 - S1. Irradiate along the nerve and painful points of the paravertebral muscles, Valleix points along the whole nerve, homo-laterally and contra-laterally. (434)

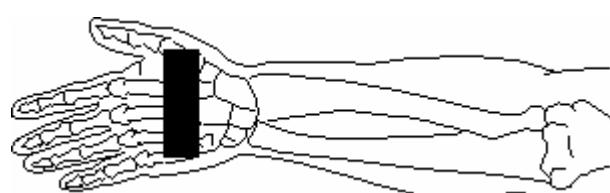


179 MIGRAENA

Program L-0807
 migraena
 Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9.12 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments 1 – 2
 Number of treatments 6 – 12
 Note Irradiate infraorbital points, temporal point, painful area of the squamous part of the temple bone.
 Irradiate as soon as pain begins.
 Watch for a regressive reaction.
 It is necessary to physically treat the actual blockage in the C-spine and to reflexively treat the muscles with laser therapy.
 (435)

**180 MORBUS DUPUYTRENE (1)**

Program L-0808
 morbus dupuytrene (1)
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.
 Probe infrared
 Frequency of treatments 2 – 3
 Number of treatments min. 8 – 10
 Note First results occur after 5 or 6 therapy sessions.
 Combine continuous mode with pulse frequency.
 Laser therapy brings relaxation, fibroblast activation, fibrin absorption and antiphlogistic effect.
 Relieves subjective problems and causes loosening of the contracture.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (436)



181 MORBUS DUPUYTRENE (2)

Program L-0809
 morbus dupuytrene (2)

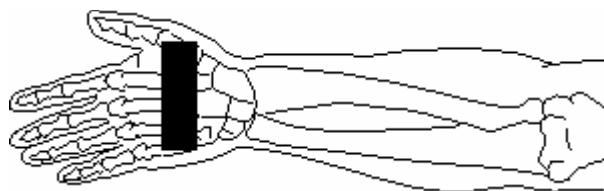
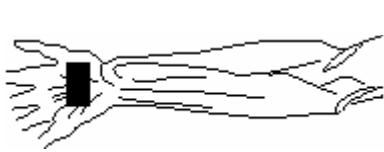
Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 2 – 3

Number of treatments min. 8 – 10

Note First results occur after 5 or 6 therapy sessions.
 Combine continuous mode with pulse frequency.
 Laser therapy brings relaxation, fibroblast activation, fibrin absorption and antiphlogistic effect.
 Relieves subjective problems and causes loosening of the contracture.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (437)

**182 NEURALGIA**

Program L-0810
 neuralgia

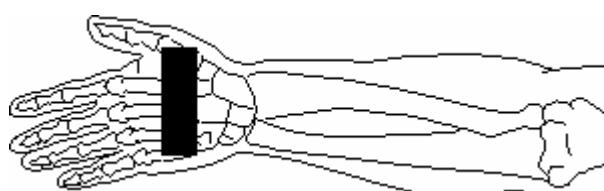
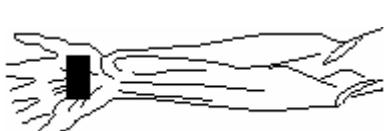
Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 4.56 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments daily – 3x per week

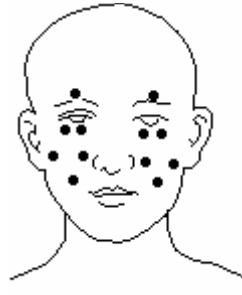
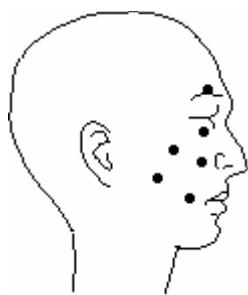
Number of treatments varies

Note Irradiate trigger points and hyperallergic areas, paravertebral points and acupuncture points.
 Very good results with laser therapy are achieved with neuralgia that have active scar tissues as a cause.
 Apply laser therapy also for post-therapeutic neuralgia, where herpetic blisters and acupuncture points are irradiated.
 Trigeminal neuralgia - see separate entry.
 Additional neurological indications: cephalaea, migraine, poly-neuritis, tics, Menier disease, vertigo, apathy, depressive states, hysteria, neurasthenia, stammering, night hyperhydrosis, loss of concentration, enuresis.
 The desired effect does not always meet expectations.
 (438)



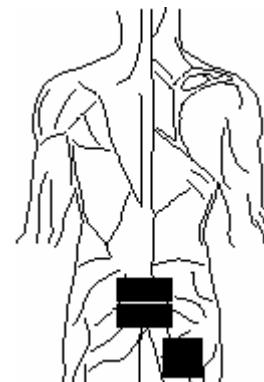
183 PARESIS NERVI FACIALIS

Program L-0811
paresis nervi facialis
Therapy parameters Dosage: 2 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 4.56 Hz
Duty factor (DF): 80 %
Probe infrared
Frequency of treatments 3
Number of treatments 10
Note Use classic motor points.
Torpid conditions are sometimes positively affected.
(439)



184 SACRALGIA

Program L-0812
sacralgia
Therapy parameters Dosage: 10 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9.12 Hz
Duty factor (DF): 80 %
Probe infrared
(440)



185 SPINA DORSALIS (DORSALGIA) (1)

Program L-0813
spina dorsalis (dorsalgia) (1)
Therapy parameters Dosage: 9 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
(441)



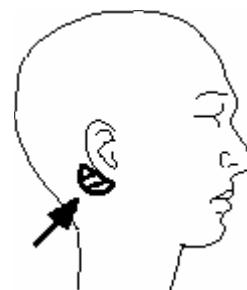
186 SPINA DORSALIS (DORSALGIA) (2)

Program L-0814
spina dorsalis (dorsalgia) (2)
Therapy parameters Dosage: 9 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe infrared
(442)



187 TINNITUS (1)

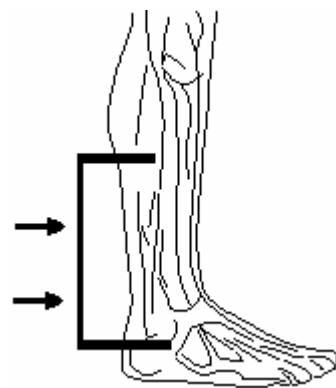
Program L-0815
 tinnitus (1)
 Therapy parameters Dosage: 10 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): 80 %
 Probe infrared
 (443)

**188 TINNITUS (2)**

Program L-0816
 tinnitus (2)
 Therapy parameters Dosage: 10 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %
 Probe infrared
 (444)

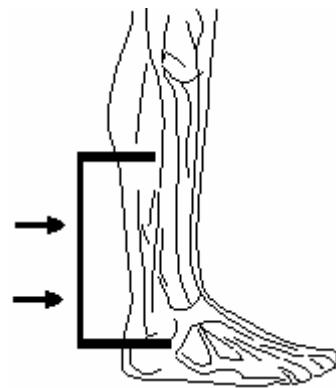
**189 ACHILLODYNTIA (1)**

Program L-0900
 achillodynia (1)
 Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.
 Probe infrared
 Frequency of treatments daily
 Number of treatments 8 - 10 (min. 5)
 Note Irradiate as in post-surgical states or Haglund's exostosis.
 Laser therapy has an analgesic, anti-edema effect, and shortens wound healing.
 Analgesic effect is noticeable after the first session.
 Acute cases (sport injuries) irradiate daily.
 Therapy can be combined with magnetic pulse field or ultrasound.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (446)



190 ACHILLODYNTIA (2)

Program L-0901
achillodynia (2)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe infrared
Frequency of treatments daily
Number of treatments 8 - 10 (min. 5)
Note Irradiate as in post-surgical states or Haglund's exostosis.
Laser therapy has an analgesic, anti-edema effect, and shortens wound healing.
Analgesic effect is noticeable after the first session.
Acute cases (sport injuries) irradiate daily.
Therapy can be combined with magnetic pulse field or ultrasound.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(447)



191 BURSITIS (1)

Program L-0902
bursitis (1)

Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 1 – 2
Number of treatments 4 – 16

Note Irradiate the affected area.
Laser therapy has an analgesic, anti-edema effect.
Acute cases: irradiate daily.
Combining the treatment with ultrasound is recommended.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(448)



192 BURSITIS (2)

Program L-0903
 bursitis (2)

Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9.12 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 1 – 2

Number of treatments 4 – 16

Note Irradiate the affected area.
 Laser therapy has an analgesic, anti-edema effect.
 Acute cases: irradiate daily.
 Combining the treatment with ultrasound is recommended.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (449)

**193 CALCAR CALCANEI (1)**

Program L-0904
 calcar calcanei (1)

Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.

Probe infrared
 (450)



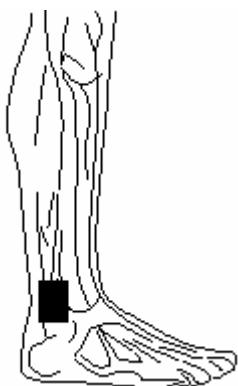
194 CALCAR CALCANEI (2)

Program L-0905
calcar calcanei (2)
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 9.12 Hz
Duty factor (DF): 80 %
Probe infrared
(451)



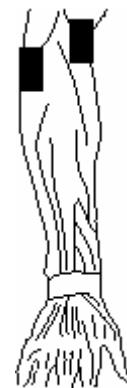
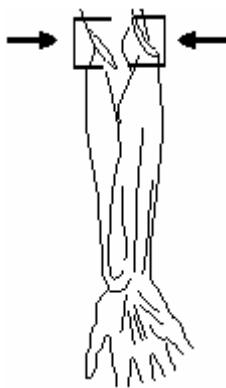
195 DISTORSIO

Program L-0906
distorsio
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe infrared
(452)



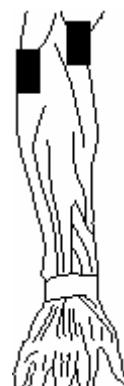
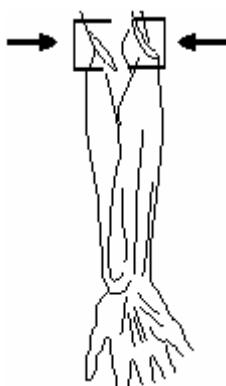
196 EPICONDYLITIS (1)

Program L-0907
epicondylitis (1)
Therapy parameters Dosage: 7 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
Frequency of treatments 2 – 3
Number of treatments 10 (min. 6)
Note Combine continuous and pulse beam.
Laser therapy has an analgesic and anti-phlogistic effect.
Remember that epicondylitis is usually caused by a problem in the neck part of the spine, which requires rehabilitative therapy.
Sufficient laser power is necessary.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(453)

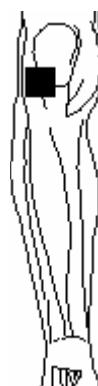


197 EPICONDYLITIS (2)

Program L-0908
 epicondylitis (2)
 Therapy parameters Dosage: 7 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments 2 – 3
 Number of treatments 10 (min. 6)
 Note Combine continuous and pulse beam.
 Laser therapy has an analgesic and anti-phlogistic effect.
 Remember that epicondylitis is usually caused by a problem in the neck part of the spine, which requires rehabilitative therapy.
 Sufficient laser power is necessary.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (454)

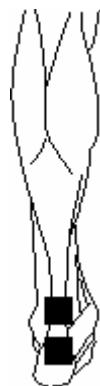
**198 CHONDROPATHIA PATELLAE**

Program L-0909
 chondropathia patellae
 Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments varies
 Number of treatments 6 – 8
 Note Irradiate the affected areas.
 (455)



199 TENDOPATHIA (1)

Program L-0910
tendopathia (1)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
(456)



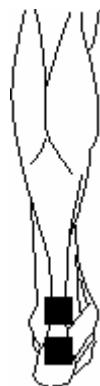
200 TENDOPATHIA (2)

Program L-0911
tendopathia (2)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe infrared
(457)



201 TENDOVAGINITIS (1)

Program L-0912
tendovaginitis (1)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
(458)



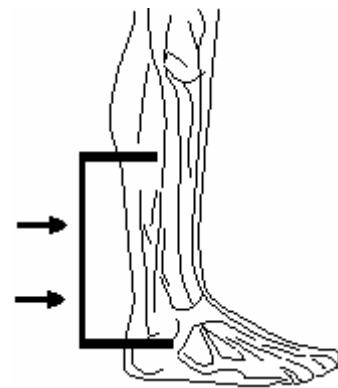
202 TENDOVAGINITIS (2)

Program L-0913
tendovaginitis (2)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe infrared
(459)



203 ACHILLODYNTIA (1)

Program L-1000
achillodynia (1)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
Frequency of treatments daily
Number of treatments 8 - 10 (min. 5)
Note Irradiate as in post-surgical states or Haglund's exostosis.
Laser therapy has an analgesic, anti-edema effect, and shortens wound healing.
Analgesic effect is noticeable after the first session.
Acute cases (sport injuries) irradiate daily.
Therapy can be combined with magnetic pulse field or ultrasound.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(461)



204 ACHILLODYNTIA (2)

Program L-1001
achillodynia (2)

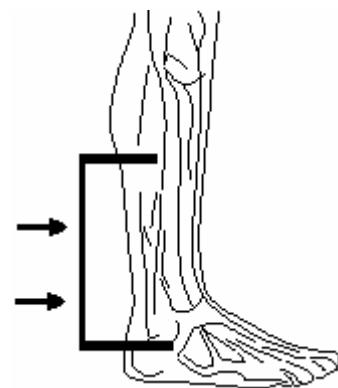
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments daily

Number of treatments 8 - 10 (min. 5)

Note Irradiate as in post-surgical states or Haglund's exostosis.
Laser therapy has an analgesic, anti-edema effect, and shortens wound healing.
Analgesic effect is noticeable after the first session.
Acute cases (sport injuries) irradiate daily.
Therapy can be combined with magnetic pulse field or ultrasound.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(462)



205 CONTUSIO

Program L-1002
contusio

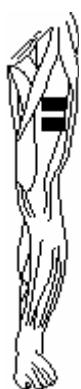
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 5

Number of treatments 5 – 10

Note Irradiate as soon as possible after injury, which hastens analgesic effect, prevents edema.
When irradiation is applied immediately after injury, use density of 1.0 J/cm².
Irradiate to decrease pain, edema and to absorb a hematoma.
Use 8 Hz anti-edema frequency.
(463)



206 DISTORSIO

Program L-1003
distrorsio

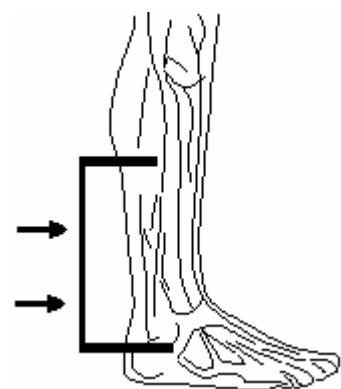
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments daily

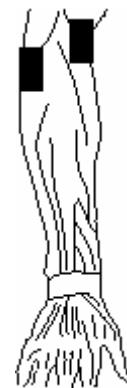
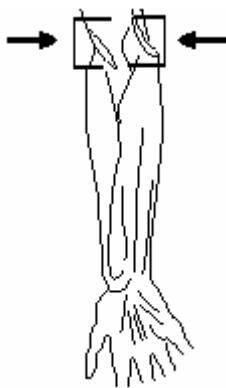
Number of treatments 5 - 10

Note Apply laser therapy as soon as possible.
Laser therapy has a quick analgesic effect, prevents edema development, and hastens absorption of hematoma.
8 Hz frequency can be sometimes chosen for its anti-edema effect.
Immediately after the injury, a density of 1 J/cm² is sufficient.
The analgesic effect should not be a reason to leave out fixation.
(464)



207 EPICONDYLITIS (1)

Program L-1004
epicondylitis (1)
Therapy parameters Dosage: 7 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
Frequency of treatments 2 – 3
Number of treatments 10 (min. 6)
Note Combine continuous and pulse beam.
Laser therapy has an analgesic and anti-phlogistic effect.
Remember that epicondylitis is usually caused by a problem in the neck part of the spine, which requires rehabilitative therapy.
Sufficient laser power is necessary.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(465)



208 EPICONDYLITIS (2)

Program L-1005
epicondylitis (2)

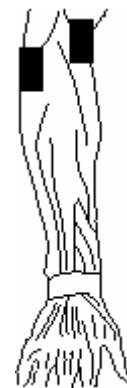
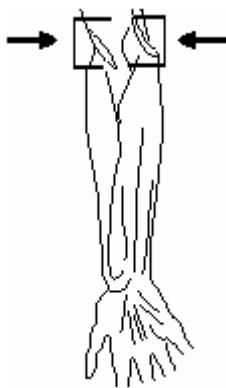
Therapy parameters Dosage: 7 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 2 – 3

Number of treatments 10 (min. 6)

Note Combine continuous and pulse beam.
Laser therapy has an analgesic and anti-phlogistic effect.
Remember that epicondylitis is usually caused by a problem in the neck part of the spine, which requires rehabilitative therapy.
Sufficient laser power is necessary.
1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
(466)



209 H A E M A T O M A

Program L-1006
haematoma

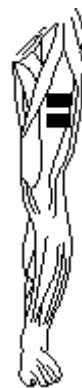
Therapy parameters Dosage: 1 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 6 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 5

Number of treatments 3 – 10

Note Acute hematoma.
Application: frequency 6 Hz, density 3 J/cm².
Post-injury hematoma.
Application: frequency 8 Hz, density 1 J/cm².
Suture hematoma.
Application: frequency 5-10 Hz; density 0.9-1 J/cm² (if very painful, 1-4 J/cm²).
Irradiate around the suture.
(467)

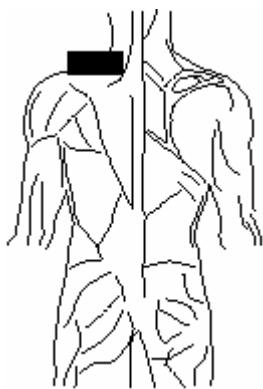


210 M Y O R E L A X A T I O

Program L-1007
myorelaxatio

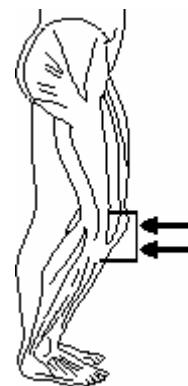
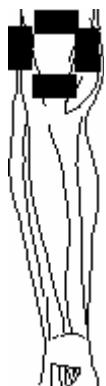
Therapy parameters Dosage: 7 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared
(468)



211 OEDEMA

Program L-1008
oedema
Therapy parameters Dosage: 2 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 2.4 Hz
Duty factor (DF): 80 %
Probe infrared
(469)



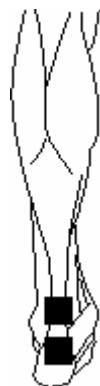
212 TENDOPATHIA (1)

Program L-1009
tendopathia (1)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
(470)



213 TENDOPATHIA (2)

Program L-1010
tendopathia (2)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %
Probe infrared
(471)



214 TENDOVAGINITIS (1)

Program L-1011
tendovaginitis (1)
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.
Probe infrared
(472)



215 TENDOVAGINITIS (2)

Program L-1012
 tendovaginitis (2)

Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %

Probe infrared
 (473)

**216 ACNE**

Program L-1100
 acne

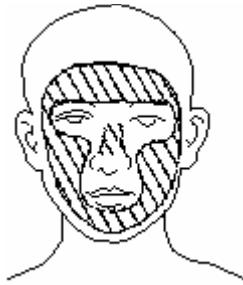
Therapy parameters Dosage: 2 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5.5 Hz
 Duty factor (DF): 80 %

Probe red

Frequency of treatments 1 - 2

Number of treatments varies

Note Irradiate the affected surface.
 After 2 - 4 irradiation sessions, skin condition improves, fibroblast stimulation occurs, collagen production increases, and pustules dry out after several irradiation sessions. Improvement occurs after several sessions.
 Irradiation effect is temporary for hormonal disorders.
 Acne juvenilis: Laser therapy favourably affects microcirculation, creates defensive antiseptic elements, and helps prevent permanent scars.
 Acne vulgaris: Begin irradiation around the edges of the focus, and work towards the center..
 (475)



217 ANALGIA

Program L-1101
 analgia

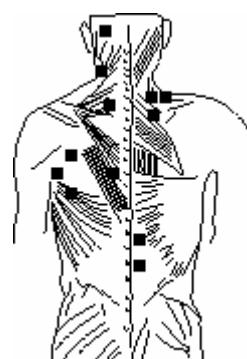
Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 10 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments daily

Number of treatments varies

Note Irradiate trigger points.
 (476)

**218 APHTA (STOMATITIS APHTOSA) (1)**

Program L-1102
 aphta (stomatitis aphtosa) (1)

Therapy parameters Dosage: 1 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.

Probe red

Frequency of treatments 2 - 5 (2x per day possible)

Number of treatments 2 - 5

Note Irradiate the entire affected surface as close to the center as possible.
 Traditional treatment methods usually last 8 - 10 days, but laser therapy cuts the duration to 1 - 2 days.
 Induces faster cessation of the burning sensation.
 Laser therapy reduces the number and duration of recidivation.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (477)



219 APHTA (STOMATITIS APHTOSA) (2)

Program L-1103
 aphta (stomatitis aphtosa) (2)

Therapy parameters Dosage: 1 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5.2 Hz
 Duty factor (DF): 80 %
 red

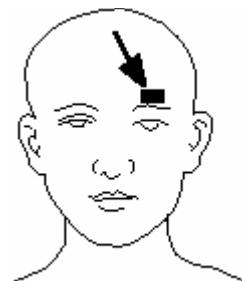
Probe
 Frequency of treatments 2 - 5 (2x per day possible)
 Number of treatments 2 - 5
 Note
 Irradiate the entire affected surface as close to the center as possible.
 Traditional treatment methods usually last 8 - 10 days, but laser therapy cuts the duration to 1 - 2 days.
 Induces faster cessation of the burning sensation.
 Laser therapy reduces the number and duration of recidivation.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (478)

**220 CICATRIX CHELOIDUM**

Program L-1104
 cicatrix cheloidum

Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %
 red

Probe
 Frequency of treatments 2 - 3
 Number of treatments 10 - 15 (40)
 Note
 Irradiate the whole scar.
 Nociceptive activity of keloid scars decreases.
 Irradiate in combination with surgical treatment.
 As a preventive treatment, irradiate persons with keloid forming tendencies.
 The older the scar, the longer the treatment.
 Irradiation decreases coloration of older scars.
 (479)



221 CICATRIX RECENS (1)

Program L-1105
cicatrix recens (1)

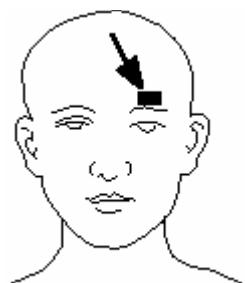
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.

Probe red

Frequency of treatments daily – 3x per week

Number of treatments 5 – 15

Note Irradiate the whole scar.
Begin irradiation immediately after surgery.
Acute cases: set a lower dose and irradiate more frequently.
Chronic cases: set a higher dose and irradiate less frequently.
Good laser therapy results can be achieved with burns, ulcers and keloid scars.
According to some experts, it is advisable to irradiate the area 2-3 days prior to surgery, or during the surgery itself.
Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
Laser treatment has an analgesic effect, and reduces infiltration, swelling and haematoma.
1st and 2nd part of therapy should be understood as two parts of one therapy session.
(480)



222 CICATRIX RECENS (2)

Program L-1106
cicatrix recens (2)

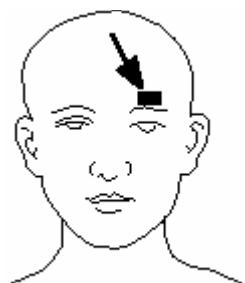
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments daily – 3x per week

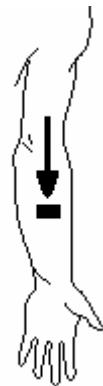
Number of treatments 5 – 15

Note Irradiate the whole scar.
Begin irradiation immediately after surgery.
Acute cases: set a lower dose and irradiate more frequently.
Chronic cases: set a higher dose and irradiate less frequently.
Good laser therapy results can be achieved with burns, ulcers and keloid scars.
According to some experts, it is advisable to irradiate the area 2-3 days prior to surgery, or during the surgery itself.
Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
Laser treatment has an analgesic effect, and reduces infiltration, swelling and haematoma.
1st and 2nd part of therapy should be understood as two parts of one therapy session.
(481)



223 COMBUSTIO

Program	L-1107 combustio
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 9.12 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	daily – 3x per week
Number of treatments	15
Note	Irradiation eliminates infection, enhances granulation and epithelialization, reduces scarring, and prevents keloids from forming. Begin irradiation around the edges of the burn, and work towards the center. Treat the burn medically at the same time. Irradiation hastens division of basal cells, which is doubled or tripled. In addition, it reduces capillary hemorrhaging. Laser therapy supports formation of vessels, lymphatic circulation, and decreases pain. (482)



224 C O N T U S I O

Program L-1108
contusio

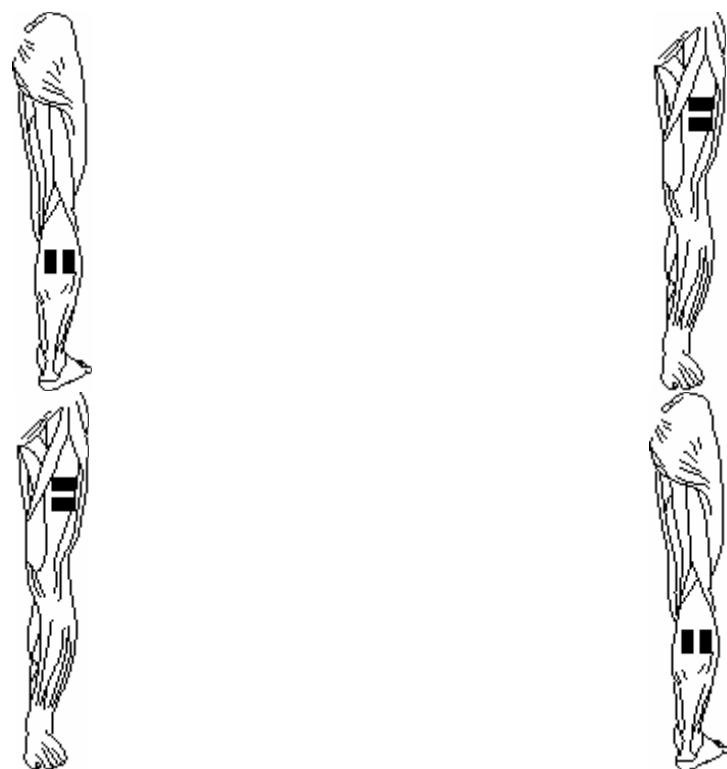
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 5

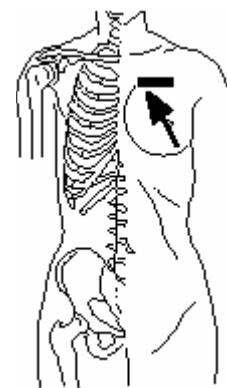
Number of treatments 5 – 10

Note Irradiate as soon as possible after injury, which hastens analgesic effect, prevents edema.
When irradiation is applied immediately after injury, use density of 1.0 J/cm².
Irradiate to decrease pain, edema and to absorb a hematoma.
Use 8 Hz anti-edema frequency.
(483)



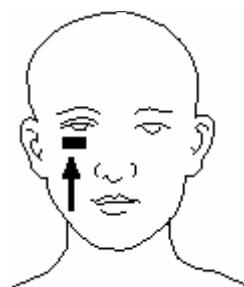
225 DERMATITIS

Program	L-1109 dermatitis
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	varies
Number of treatments	varies
Note	Laser therapy applied at an acute stage (swollen and itchy skin) can have an anti-pruriginous effect, allowing treatment with sedatives to be decreased or eliminated. Reduces inflammation. Can be also used for dermatitis that is therapeutically resistant to classical treatment methods. Diagnosis: Eczema. (484)



226 ECZEMA

Program	L-1110 eczema
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red (485)



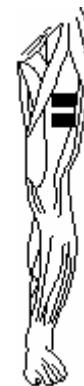
227 FURUNCULUS

Program L-1111
furunculus
Therapy parameters Dosage: 2 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 2 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments varies
Number of treatments varies
Note Irradiate affected areas.
(486)



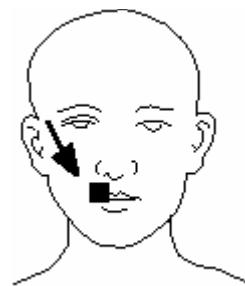
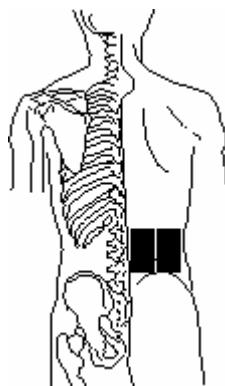
228 HAE MATOMA

Program L-1112
haematoma
Therapy parameters Dosage: 1 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 6 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments 5
Number of treatments 3 – 10
Note Acute hematoma.
Application: frequency 6 Hz, density 3 J/cm².
Post-injury hematoma.
Application: frequency 8 Hz, density 1 J/cm².
Suture hematoma.
Application: frequency 5-10 Hz; density 0.9-1 J/cm² (if very painful, 1-4 J/cm²).
Irradiate around the suture.
(487)



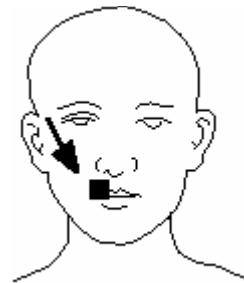
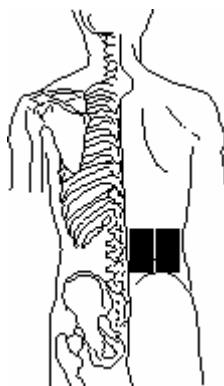
229 HERPES (1)

Program L-1113
 herpes (1)
 Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.
 Probe red / infrared
 Frequency of treatments 1st day 1-2x, then daily
 Number of treatments 3 – 6
 Note Probe: use red light for lips and mucosa, and infrared light for skin.
 Irradiate at the first signs of tension in the tissue.
 Results are better when started in the early stages of the condition.
 Irradiate at the edges of the lesion.
 Doses of sufficient strength must be given because herpes can worsen if only a stimulatory dose is given.
 During the therapy session, irradiate first with continuous mode and then with pulse frequency.
 Irradiation reduces pain.
 Normal healing takes 8 - 14 days, but only 2-4 days with laser therapy.
 Reduces recurrence of the condition.
 Prevents the forming of blisters.
 Has a healing, analgesic, and anti-edema effect.
 1st and 2nd part of therapy should be understood as two parts of one therapy session.
 (488)



230 HERPES (2)

Program	L-1114 herpes (2)
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red / infrared
Frequency of treatments	1st day 1-2x, then daily
Number of treatments	3 – 6
Note	Probe: use red light for lips and mucosa, and infrared light for skin. Irradiate at the first signs of tension in the tissue. Results are better when started in the early stages of the condition. Irradiate at the edges of the lesion. Doses of sufficient strength must be given because herpes can worsen if only a stimulatory dose is given. During the therapy session, irradiate first with continuous mode and then with pulse frequency. Irradiation reduces pain. Normal healing takes 8 - 14 days, but only 2-4 days with laser therapy. Reduces recurrence of the condition. Prevents the forming of blisters. Has a healing, analgesic, and anti-edema effect. 1st and 2nd part of therapy should be understood as two parts of one therapy session. (489)

**231 LICHEN PLANUS**

Program	L-1115 lichen planus
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Number of treatments	varies
Note	Laser therapy quickly relieves itching and decreases the area of lichen. Given the various forms and types, parameters must be set according to patient reaction. Lichen ruber planus: density of 2-3 J/cm ² , irradiate until the lichen disappears. (490)



232 OEDEMA

Program L-1116
 oedema

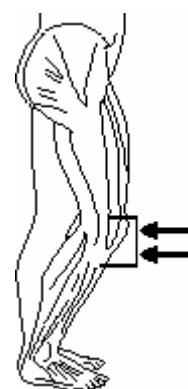
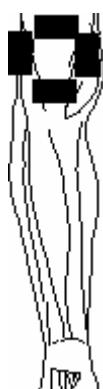
Therapy parameters Dosage: 2 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 2.4 Hz
 Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 3 – 5

Number of treatments 5 – 15

Note Irradiate the affected areas.
 (491)

**233 PRURITUS**

Program L-1117
 pruritus

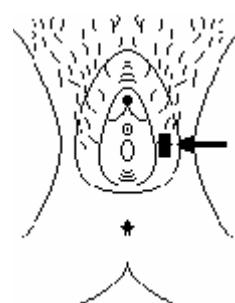
Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe red

Frequency of treatments 1st week every day, than 2-3 per week

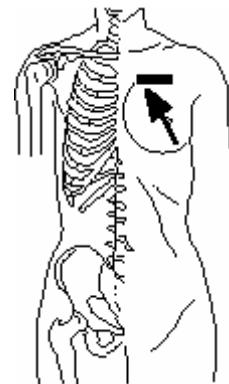
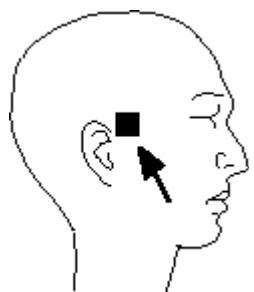
Number of treatments 3 – 10

Note Irradiate all area from 1 cm distance from surface skin.
 Laser therapy helps to eliminate discomfort of the patient.
 Laser therapy has analgesic, stimulation and anti-pruritis effect.
 (492)



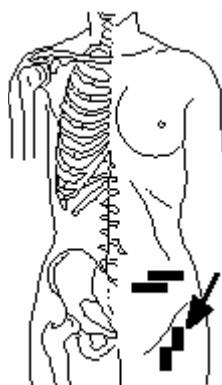
234 SANATIO POSTOPERATIVA

Program L-1118
sanatio postoperativa
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments 1 – 2
Number of treatments 1 – 4
Note Accelerates healing of wounds.
Improves blood supply.
(493)



235 STRIAE

Program L-1119
striae
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 8.4 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments 2 – 3
Number of treatments 20 – 30
Note The sooner the treatment starts the better the result is.
In neglected cases, therapy can last up to 100 sessions.
(494)

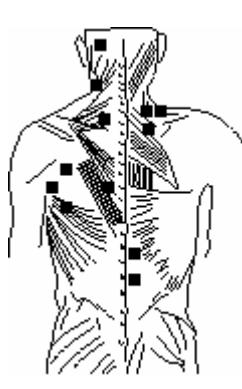


236 ACNE

Program	L-1200
	acne
Therapy parameters	Dosage: 2 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5.5 Hz Duty factor (DF): 80 %
Probe	red
Frequency of treatments	1 - 2
Number of treatments	varies
Note	Irradiate the affected surface. After 2 - 4 irradiation sessions, skin condition improves, fibroblast stimulation occurs, collagen production increases, and pustules dry out after several irradiation sessions. Improvement occurs after several sessions. Irradiation effect is temporary for hormonal disorders. Acne juvenilis: Laser therapy favourably affects microcirculation, creates defensive antiseptic elements, and helps prevent permanent scars. Acne vulgaris: Begin irradiation around the edges of the focus, and work towards the center.. (496)

**237 ANALGIA**

Program	L-1201
	analgesia
Therapy parameters	Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 10 Hz Duty factor (DF): 80 %
Probe	infrared
Frequency of treatments	daily
Number of treatments	varies
Note	Irradiate trigger points. (497)



238 APHTA (STOMATITIS APHTOSA) (1)

Program L-1202
 aphta (stomatitis aphtosa) (1)
 Therapy parameters Dosage: 1 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.
 red
 Probe
 Frequency of treatments 2 - 5 (2x per day possible)
 Number of treatments 2 - 5
 Note Irradiate the entire affected surface as close to the center as possible.
 Traditional treatment methods usually last 8 - 10 days, but laser therapy cuts the duration to 1 - 2 days.
 Induces faster cessation of the burning sensation.
 Laser therapy reduces the number and duration of recidivation.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (498)

**239 APHTA (STOMATITIS APHTOSA) (2)**

Program L-1203
 aphta (stomatitis aphtosa) (2)
 Therapy parameters Dosage: 2 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5.2 Hz
 Duty factor (DF): 80 %
 red
 Probe
 Frequency of treatments 2 - 5 (2x per day possible)
 Number of treatments 2 - 5
 Note Irradiate the entire affected surface as close to the center as possible.
 Traditional treatment methods usually last 8 - 10 days, but laser therapy cuts the duration to 1 - 2 days.
 Induces faster cessation of the burning sensation.
 Laser therapy reduces the number and duration of recidivation.
 1st part of therapy and 2nd part of therapy should be understood as two parts of one therapy session.
 (499)



240 ARTHRITIS

Program L-1204
arthritis

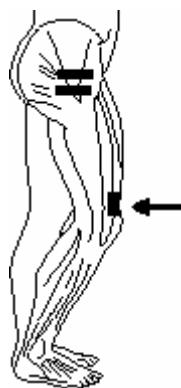
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 8.6 Hz
Duty factor (DF): 80 %

Probe infrared

Frequency of treatments 3

Number of treatments 15 - 50

Note When irradiating at early stages of the disease, morning stiffness is eliminated, and joint mobility is extended. After additional irradiation, swelling decreases and further inflammation is reduced.
Laser therapy, in combination with traditional medical treatment, can prevent or stop further development of the disease without any deformation occurring.
In advanced stages, laser therapy reduces swelling and pain, and has an anti-fibrotic effect.
(500)



241 CICATRIX CHELOIDUM

Program L-1205
cicatrix cheloidum

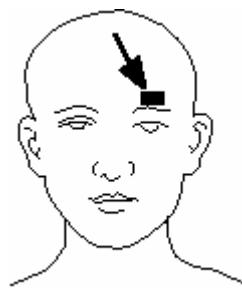
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 2 – 3

Number of treatments 10 – 15 (40)

Note Irradiate the whole scar.
Nociceptive activity of keloid scars decreases.
Irradiate in combination with surgical treatment.
As a preventive treatment, irradiate persons with keloid forming tendencies.
The older the scar, the longer the treatment.
Irradiation decreases coloration of older scars.
(501)



242 CICATRIX RECENS (1)

Program L-1206
cicatrix recens (1)

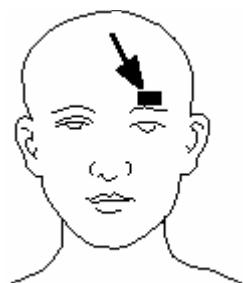
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: Cont.
Duty factor (DF): Cont.

Probe red

Frequency of treatments daily – 3x per week

Number of treatments 5 – 15

Note Irradiate the whole scar.
Begin irradiation immediately after surgery.
Acute cases: set a lower dose and irradiate more frequently.
Chronic cases: set a higher dose and irradiate less frequently.
Good laser therapy results can be achieved with burns, ulcers and keloid scars.
According to some experts, it is advisable to irradiate the area 2-3 days prior to surgery, or during the surgery itself.
Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
Laser treatment has an analgesic effect, and reduces infiltration, swelling and haematoma.
1st and 2nd part of therapy should be understood as two parts of one therapy session.
(502)



243 CICATRIX RECENS (2)

Program L-1207
 cicatrix recens (2)

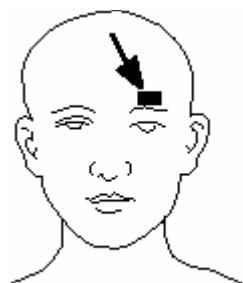
Therapy parameters Dosage: 4 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %

Probe red

Frequency of treatments daily – 3x per week

Number of treatments 5 – 15

Note Irradiate the whole scar.
 Begin irradiation immediately after surgery.
 Acute cases: set a lower dose and irradiate more frequently.
 Chronic cases: set a higher dose and irradiate less frequently.
 Good laser therapy results can be achieved with burns, ulcers and keloid scars.
 According to some experts, it is advisable to irradiate the area 2-3 days prior to surgery, or during the surgery itself.
 Improved oxidation in the cells effects microcirculation in the affected tissue, and improves cellular energy use and waste drainage.
 Laser treatment has an analgesic effect, and reduces infiltration, swelling and haematoma.
 1st and 2nd part of therapy should be understood as two parts of one therapy session.
 (503)

**244 COMBUSTIO**

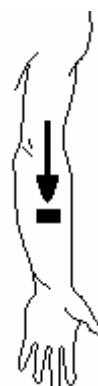
Program L-1208
 combustio

Therapy parameters Dosage: 2 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 9.12 Hz
 Duty factor (DF): 80 %

Probe red

Frequency of treatments daily – 3x per week

Number of treatments 15
 (504)

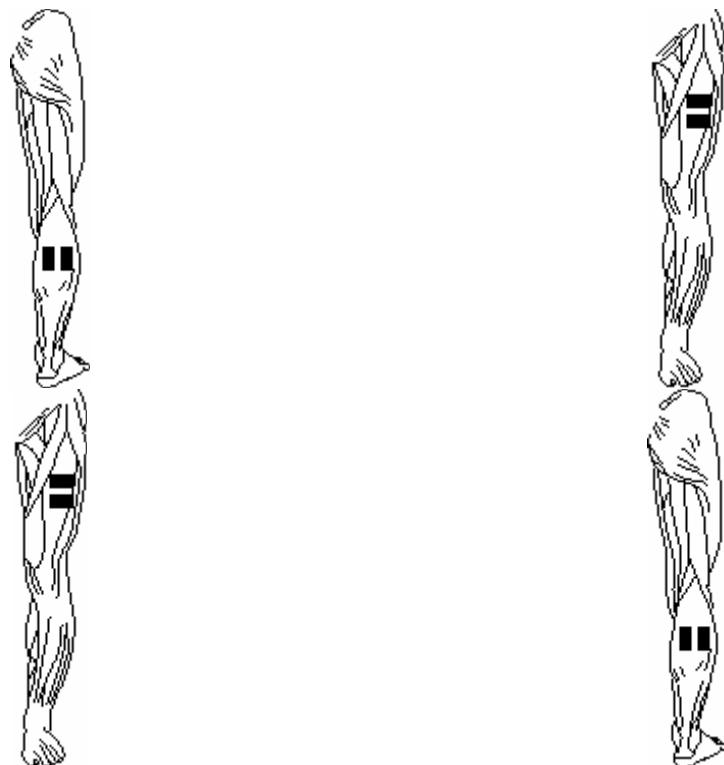


245 C O N T U S I O

Program L-1209
contusio

Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 10 Hz
Duty factor (DF): 80 %

Probe infrared
(505)



246 DECUBITUS

Program L-1210
decubitus

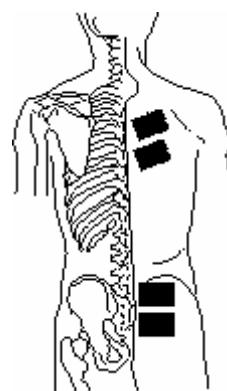
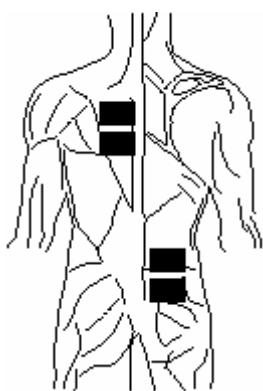
Therapy parameters Dosage: 4 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 6 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments daily

Number of treatments min. 1 – 2

Note Laser therapy has an analgesic and healing effect.
Chronic disease: daily irradiation is recommended.
(506)



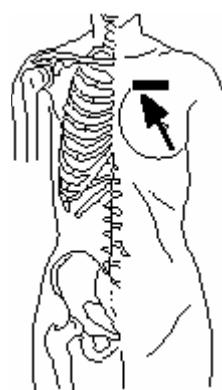
247 DERMATITIS

Program L-1211
dermatitis

Therapy parameters Dosage: 2 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %

Probe red

Note Laser therapy applied at an acute stage (swollen and itchy skin) can have an anti-pruriginous effect, allowing treatment with sedatives to be decreased or eliminated.
Reduces inflammation.
Can be also used for dermatitis that is therapeutically resistant to classical treatment methods.
Diagnosis: Eczema.
(507)

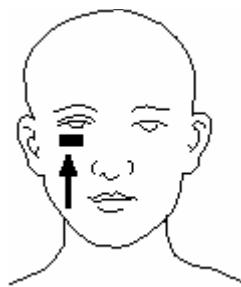


248 ECZEMA

Program L-1212
eczema

Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %

Probe red
(508)



249 FURUNCULUS

Program L-1213
furunculus

Therapy parameters Dosage: 2 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 2 Hz
Duty factor (DF): 80 %

Probe red
Note Irradiate affected areas.
(509)



250 H A E M A T O M A

Program L-1214
haematoma

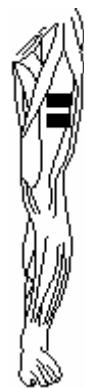
Therapy parameters Dosage: 1 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 6 Hz
Duty factor (DF): 80 %

Probe red

Frequency of treatments 5

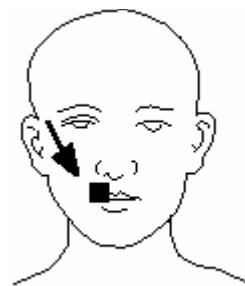
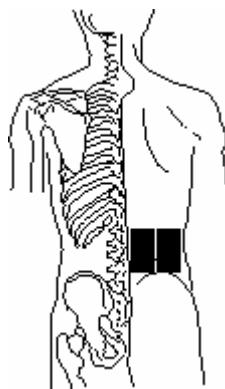
Number of treatments 3 – 10

Note Acute hematoma.
Application: frequency 6 Hz, density 3 J/cm².
Post-injury hematoma.
Application: frequency 8 Hz, density 1 J/cm².
Suture hematoma.
Application: frequency 5-10 Hz; density 0.9-1 J/cm² (if very painful, 1-4 J/cm²).
Irradiate at the edges of the suture.
(510)



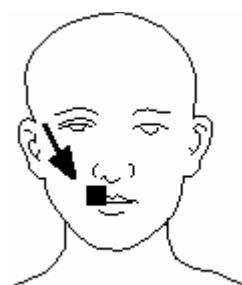
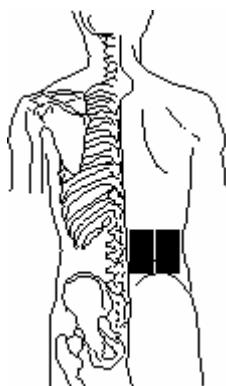
251 HERPES (1)

Program L-1215
 herpes (1)
 Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.
 Probe red / infrared
 Frequency of treatments 1st day 1-2x, then daily
 Number of treatments 3 – 6
 Note Probe: use red light for lips and mucosa, and infrared light for skin.
 Irradiate at the first signs of tension in the tissue.
 Results are better when started in the early stages of the condition.
 Irradiate at the edges of the lesion.
 Doses of sufficient strength must be given because herpes can worsen if only a stimulatory dose is given.
 During the therapy session, irradiate first with continuous mode and then with pulse frequency.
 Irradiation reduces pain.
 Normal healing takes 8 - 14 days, but only 2-4 days with laser therapy.
 Reduces recurrence of the condition.
 Prevents the forming of blisters.
 Has a healing, analgesic, and anti-edema effect.
 1st and 2nd part of therapy should be understood as two parts of one therapy session.
 (511)



252 HERPES (2)

Program	L-1216 herpes (2)
Therapy parameters	Dosage: 3 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red / infrared
Frequency of treatments	1st day 1-2x, then daily
Number of treatments	3 – 6
Note	Probe: use red light for lips and mucosa, and infrared light for skin. Irradiate at the first signs of tension in the tissue. Results are better when started in the early stages of the condition. Irradiate at the edges of the lesion. Doses of sufficient strength must be given because herpes can worsen if only a stimulatory dose is given. During the therapy session, irradiate first with continuous mode and then with pulse frequency. Irradiation reduces pain. Normal healing takes 8 - 14 days, but only 2-4 days with laser therapy. Reduces recurrence of the condition. Prevents the forming of blisters. Has a healing, analgesic, and anti-edema effect. (512)

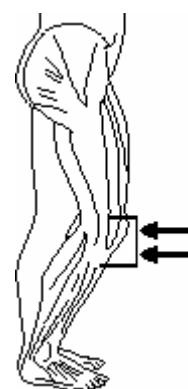
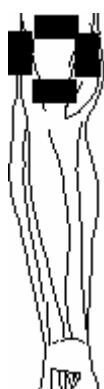
**253 LICHEN PLANUS**

Program	L-1217
Therapy parameters	lichen planus Dosage: 4 J/cm ² Power: by probe Irradiated area: 1 cm ² Frequency: 5 Hz Duty factor (DF): 80 %
Probe	red
Note	Laser therapy quickly relieves itching and successively decreases the area of lichen. Because of various forms of the disease it is not possible to set general parameters of frequency and intensity of irradiation. Lichen ruber planus: dose of 2-3 J/cm ² , irradiate until the lichen disappears. (513)

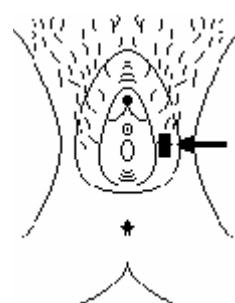


254 OEDEMA

Program L-1218
 oedema
 Therapy parameters Dosage: 2 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 2.4 Hz
 Duty factor (DF): 80 %
 Probe infrared
 Frequency of treatments 3 – 5
 Number of treatments 5 – 15
 Note Irradiate the affected areas.
 (514)

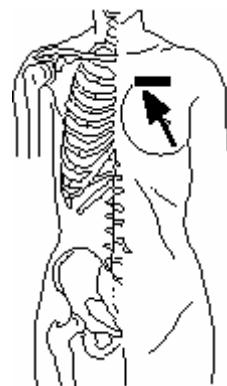
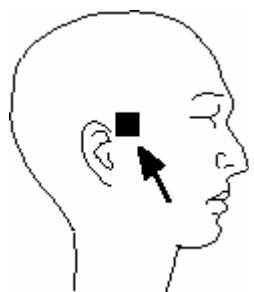
**255 PRURITUS**

Program L-1219
 pruritus
 Therapy parameters Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %
 Probe red
 Frequency of treatments 1st week every day, than 2 - 3x per week
 Number of treatments 3 – 10
 Note Irradiate all area from 1 cm distance from the skin surface.
 Laser therapy helps to eliminate discomfort of the patient.
 Laser therapy has analgesic, stimulation and anti-pruritis effect.
 (515)



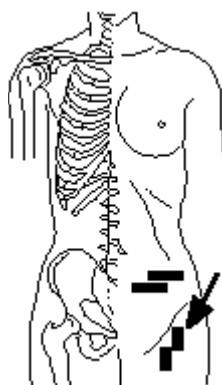
256 SANATIO POSTOPERATIVA

Program L-1220
sanatio postoperatoriva
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 5 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments 1 – 2
Number of treatments 1 – 4
Note Accelerates healing of wounds.
Improves blood supply.
(516)



257 STRIAE

Program L-1221
striae
Therapy parameters Dosage: 3 J/cm²
Power: by probe
Irradiated area: 1 cm²
Frequency: 8.4 Hz
Duty factor (DF): 80 %
Probe red
Frequency of treatments 2 – 3
Number of treatments 20 – 30
Note The sooner the treatment starts the better the result is.
In neglected cases, therapy can last up to 100 sessions.
(517)



258 ULCUS CRURIS (1)

Program L-1222
 Therapy parameters
 Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: Cont.
 Duty factor (DF): Cont.
 Probe red
 Frequency of treatments 2 – 3 (daily)
 Number of treatments 8 – 20
 Note Excellent clinical effect.
 During 1st part of therapy, use continuous mode with higher power.
 During 2nd part of therapy, use modulated frequency with lower power.
 If the parameters are well-selected, a formerly unhealable condition can be completely cured.
 Ulcus cruris varicosum: Irradiate daily for the first few sessions, then 2 or 3x a week.
 Irradiate at the edges of the ulcer.
 1st and 2nd part of therapy should be understood as two parts of one therapy session.
 (518)

**259 ULCUS CRURIS (2)**

Program L-1223
 Therapy parameters
 Dosage: 3 J/cm²
 Power: by probe
 Irradiated area: 1 cm²
 Frequency: 5 Hz
 Duty factor (DF): 80 %
 Probe red
 Frequency of treatments 2 – 3 (daily)
 Number of treatments 8 – 20
 Note Excellent clinical effect.
 During 1st part of therapy, use continuous mode with higher power.
 During 2nd part of therapy, use modulated frequency with lower power.
 If the parameters are well-selected, a formerly unhealable condition can be completely cured.
 Ulcus cruris varicosum: Irradiate daily for the first few sessions, then 2 or 3x a week.
 Irradiate at the edges of the ulcer.
 1st and 2nd part of therapy should be understood as two parts of one therapy session.
 (519)

